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PHOTOELECTRIC PHOTOMETRY OF CEPHEID VARIABLE STARS

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E D I T O R E S

GUILLERMO HARO — MARIO GUERRA M.

Observatorios de Tonantzintla y Tacubaya

Apartado Postal Nº 70-264

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R. I. Mitchell, B. Iriarte, D. Steinmetz* and H. L. Johnson**

RESUMEN

En este trabajo presentamos un catálogo de aproximadamente 10,000 observaciones fotoeléctricas de estrellas variables del tipo Cefeida, que es el resultado de nuestras propias observaciones y de datos obtenidos de las publicaciones de otros observadores. Este es el primer catálogo que contiene información en UBV para Cefeidas en toda la Vía Láctea. El catálogo contiene datos para más de 300 estrellas; de éstas, aproximadamente 230 pueden ser consideradas como "bien observadas".

Como una ilustración de los datos contenidos en nuestro catálogo, proporcionamos gráficas para 93 estrellas.

ABSTRACT

We present here a catalogue of approximately 10,000 photoelectric observations of Cepheid variable stars, from our own work and from data transformed from the publications of other observers. This is the first catalogue which contains UBV data for Cepheids all around the Milky Way. The catalogue contains data on more than 300 stars; of these approximately 230 can be classed as "well-observed".

As an illustration of the data contained in our catalogue, we show graphs for 93 stars.

I. Introduction

There have now been published many photoelectric observations on Cepheid variable stars. Among these data are observations made in both the Northern and Southern Hemispheres, and analysis of the data for these stars should provide us with perhaps the best information about galactic rotation that we can obtain at the present time. Unfortunately, however, the published data are on several photometric systems and it has been found that the problems of comparison between the several series of observations, both Southern and Northern, are a serious contretemps in the analysis. In an effort to ameliorate this exigency, we have made new UBV photoelectric observations on many of the Cepheid stars in the published lists. These data permit us to make accurate transformations of the previously published data to the UBV system. In addition, we have made observations on a number of important stars that were not included in any of the published catalogues, or which were not adequately observed prior to our work. We have added approximately 2,000 observations.

II. Reduction Procedures

Since we have observed Cepheid stars in common with all the published lists, we are in a position to make the transformations to the UBV system based upon the Cepheids, themselves; it is not necessary for us to assume that transformations based on other kinds of stars are valid for these. We have found it convenient, however, to assume that transformations based upon other stars are approximately valid also for the Cepheids, thus reducing the size of the corrections to the Standard System. The corrections for individual stars were determined by superposition of plots of the published data, and ours; only stars with well-determined light curves in both lists were used for this purpose.

There are 16 stars, whose data meet our requirements, in common with our work and that of Weaver, Steinmetz and Mitchell (1961). Almost all of the residuals in V and B−V are zero (exceptions are RZ Gem and UX Per, both with $\Delta(B-V) = +0.02$ mag. The average residual in U−B is ± 0.002 (p. e.) mag., from 14 stars. (The U−B residual for AP Cas has been rejected since the Lowell data are suspect.) Since no significant differences were found between our data and that of Weaver, et al. these two lists together have been adopted as the definition of the Standard System for the Cepheids.

Of the 51 Cepheids observed by Oosterhoff (1960), 27 have been compared with the Standard System. The corrections are:

$$V = V_o + 0.012 \pm 0.002 \text{ (p. e.) mag.,}$$
$$B-V = (B-V)_o + 0.017 \pm 0.002 \text{ (p. e.) mag.,}$$
$$U-V = (U-B)_o + 0.033 \pm 0.001 \text{ (p. e.) mag.}$$

In the list of BV photometry by Bahner, Hiltner and Kraft (1962), there are 29 stars which we have compared with the Standard System. The corrections are:

* Lunar and Planetary Laboratory, University of Arizona, Tucson, Arizona.

$$V = V_{aus} + 0.006 \pm 0.001 \text{ (p. e.) mag.}$$
$$B-V = B-V_{aus} - 0.024 \pm 0.002 \text{ (p. e.) mag.}$$

Our transformation differs from that given by Bahner, et al. for their comparison with the data of Weaver, et al. Fourteen additional stars have been included in our determination.

We have selected 19 stars from Irwin's (1961) data, for comparison with the Standard System. The sample contains stars as far south as declination −35° and includes stars from both ends of the Milky Way that can be observed from the Northern Hemisphere. The corrections are:

$$V = V_I + 0.011 \pm 0.004 \text{ (p. e.) mag.}$$
$$B-V = (B-V)_I + 0.017 \pm 0.004 \text{ (p. e.) mag.}$$

The transformation of Irwin's (U−B)$_r$ colors to the U−B system is poorly defined by the Cepheid data. For these data, the comparison method was modified in the sense that the maximum of the light curve was compared with the Standard System maximum and the minimum, with the Standard System minimum. The problem was complicated by the inhomogeneity of the data, due to the difference between Irwin's refractor and reflector observations. The two transformations are:

$$U-B = -1.666 + 0.333\ (B-V)_I + 0.618\ (U-B)_I \text{ (Cape refractor)},$$
$$U-B = -2.347 + 0.055\ (B-V)_I + 1.502\ (U-B)_I \text{ (Radcliffe reflector)}.$$

These transformations are uncertain, but they are the best we were able to obtain from the data.

The transformations from the data of Walraven, Muller and Oosterhoff (1958) to the Standard System are:

$$V = 10.651 - 2.495 \log I_r - 0.0772\ \Delta \log I.$$
$$B-V = 1.229 - 2.301\ \Delta \log I.$$

Because of the early epoch of Eggen's observations, they are still valuable even though UBV data are available for all 33 stars in his list. Eggen's data were first transformed by the equations given by Sandage (1960), and then compared graphically with the Standard System. We had considerable difficulty with the transformations for these data and finally decided upon the following equations:

$$V = -0.087 - 1.016\ C_r + 1.029\ P_{r_p} + (0.129 - 0.099\ C_r) \log p \text{ (days)},$$
$$B-V = -0.079 + 1.167\ C_r + 0.0109\ P_{r_p} + (0.111 - 0.115\ C_r) \log p \text{ (days)}.$$

Five of the stars, FN Aql, SU Cyg, ζ Gem, Z Lac, and W Sgr, deviate somewhat in amplitude and shape of the light curve from the BV curves, even after application of this transformation.

Twenty-six Cepheids from the list of Eggen, Gascoigne and Burr (1957) were compared with the Standard System. The following transformations were determined:

$$V = V_E + 0.042,$$
$$B-V = +0.155 + 0.9638\ (P-V)$$

No corrections were applied to the UBV observations reported by other authors except for BL Her, for which the V data by Abt and Hardie (1950) were corrected by +0.05 mag., and for U Sgr, for which the data by Sandage (1960) were corrected as follows: V = V. −0.04, B−V = (B−V). −0.01, U−B = (U−B). −0.01. The corrections for U Sgr were derived from a comparison of Sandage's data on the cluster, M25, with that of Johnson (1960).

III. The catalogue

The catalogue is divided into two tables. Table 1 contains the well-observed stars. Table 2 contains unconfirmed data, i. e., those stars for which the range in phase does not cover enough of the light curve to confirm that light and color change appropriately.

In the catalogue, the stars are ordered alphabetically by the abbreviation of the constellation name. The columns give the Julian Day, Cycles [Cycles + Phase = (J. D. − 2430000)/P], the V magnitude, B−V, U−B and, in the last column, the number of the reference in the list of references at the end of the tables. A minus sign in the "RF" column indicates the original author gave lower weight to these observations (if a U−B observation is given, it is the U−B which is in doubt). The periods were taken from Kukarkin, et. al. (1958).

TABLE I

THE CEPHEID PHOTOMETRY

T ANT

J.D.	CYCLES	V	B-V	U-B	RF
4562.210	771.974	9.75	0.87		7
4575.194	774.171	8.91	0.51		-7
4575.217	774.851	9.82	0.98		-7
4835.393	817.861	9.75	0.94		7
4906.324	830.201	9.10	0.69		7
4917.275	832.054	8.92	0.51		7
5163.404	873.702	9.67	.95	0.68	5
5177.387	876.068	8.92	0.59	0.33	-5
5185.466	877.435	9.38	0.85	0.58	5
5194.487	878.962	8.93	0.49		7
5208.398	881.315	9.29	0.83	0.54	5
5224.389	884.021	8.95	0.51		7
5238.336	886.381	9.37	0.82	0.55	5
5246.290	887.727	9.76	0.93	0.67	-5
5256.291	889.419	9.41	0.83	0.58	5
5257.279	889.587	9.59	0.93	0.66	5
5267.256	891.275	9.30	0.79	0.54	5
5275.214	892.621	9.69	0.94	0.57	6
5292.226	895.500	9.52	0.90	0.61	5
5532.515	936.159	9.41	0.76		7
5535.449	936.656	9.75	0.91		7
5555.474	940.044	9.12	0.65		7
5568.423	942.235	9.37	0.80		7
5573.448	943.086	9.23	0.70		7
5574.337	943.236	9.38	0.82		7
5580.362	944.256	9.40	0.81		7
5595.350	946.792	9.16	0.67		7
5608.308	948.984	9.07	0.62		7
5609.335	949.158	9.33	0.78		7
5611.324	949.495	9.73	0.91		7
5612.292	949.659	9.73	0.86		7
5616.294	950.336	9.46	0.84		7
5619.274	950.840	8.90	0.51		-7
5620.265	951.008	9.11	0.63		7
5622.228	951.340	9.46	0.85		7
5623.310	951.523	9.71	0.90		7
5624.217	951.676	9.66	0.84		7
5626.229	952.017	9.14	0.66		7
5627.220	952.185	9.34	0.80		7
5629.240	952.526	9.74	0.92		7
5630.280	952.702	9.55	0.77		7
5631.262	952.869	8.93	0.51		7
5632.210	953.029	9.15	0.67		7
5634.200	953.366	9.55	0.87		7
5636.205	953.705	9.51	0.76		7
5637.254	953.882	8.96	0.54		7
5638.235	954.048	9.11	0.70		7
5639.192	954.210	9.44	0.83		7
5640.207	954.382	9.57	0.88		7
5641.200	954.550	9.70	0.94		7
5642.194	954.718	9.72	0.80		-7
5643.270	954.900	9.00	0.53		7
5644.214	955.060	9.19	0.71		7
5647.193	955.565	9.75	0.92		7
7626.952	1290.560	9.34	0.82	0.44	1
7653.940	1295.127	8.89	0.50	0.26	1
7654.905	1295.290	9.04	0.62	0.36	1

T ANT CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7656.913	1295.630	9.44	0.83	0.48	1
7661.839	1296.463	9.29	0.75	0.42	1
7663.858	1296.805	9.87	0.73	0.61	1

η AQL HD 187929

J.D.	CYCLES	V	B-V	U-B	RF
2774.858	385.651	4.06	0.63		8
2777.802	387.062	3.79	0.79		8
2778.792	387.200	3.97	0.84		8
2789.840	388.739	3.71	0.68		8
2790.836	388.878	3.57	0.64		8
2791.840	389.018	3.77	0.79		8
2792.830	389.156	3.79	0.81		8
2841.658	395.959	3.66	0.71		8
3102.828	432.351	4.10	1.02		8
3103.821	432.489	4.29	1.03		8
3116.852	434.305	4.02	0.98		8
3131.803	436.388	4.12	1.01		8
3132.733	436.518	4.29	1.00		8
3133.750	436.660	4.08	0.79		8
3134.792	436.805	3.51	0.59		8
3136.803	437.085	3.77	0.80		8
3137.758	437.218	3.96	0.89		8
3152.774	439.311	4.04	0.97		8
3153.778	439.450	4.20	1.02		8
3154.796	439.592	4.22	0.95		8
3158.708	440.137	3.82	0.78		8
3159.729	440.280	3.99	0.94		8
3178.660	442.920	3.60	0.68		8
3179.678	443.059	3.75	0.81		8
3180.672	443.199	3.93	0.89		8
3200.655	445.982	3.82	0.74		8
3206.660	446.819	3.51	0.61		8
5242.649	730.516	4.32	1.03	0.79	5
5256.602	732.460	4.28	1.04	0.81	5
5292.507	737.463	4.32	1.04	0.81	5
5302.531	738.860	3.50	0.62		7
5304.470	739.130	3.79	0.83	0.58	6
5305.405	739.260	4.05	0.95	0.69	6
5306.417	739.401	4.19	1.02	0.77	6
5309.414	739.819	3.51	0.62	0.36	6
5310.426	739.960	3.66	0.74	0.47	6
5315.495	740.666	3.97	0.85		7
5331.442	742.888	3.51	0.62		7
5348.329	745.241	3.95	0.91		7
5652.406	787.612	4.16	0.93		7
5654.379	787.887	3.53	0.62		7
5660.996	788.753	3.63	0.68		7
5661.643	788.871	3.55	0.63		7
5668.489	789.853	3.50	0.58		7
5681.384	791.650	4.07	0.84		7
5682.349	791.784	2.82	0.60		-7
7147.780	995.979	3.68	0.75	0.45	1
7148.819	996.123	3.80	0.81	0.52	1
7149.833	996.265	4.03	0.94	0.65	1
7206.711	1004.190	3.83	0.85	0.59	1

TABLE 1 (continued)

η AQL HD 187929 CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7213.729	1005.168	3.73	0.86	0.56	1
7215.631	1005.433	4.18	1.04	0.76	1
7233.621	1007.940	3.65	0.68	0.43	1
7237.606	1008.495	4.30	1.03	0.76	1
7239.592	1008.772	3.63	0.63	0.38	1
7516.821	1047.401	4.21	1.03	0.77	1
7518.816	1047.679	3.97	0.82	0.51	1
7521.810	1048.096	3.79	0.83	0.54	1
7522.835	1048.239	4.05	0.92	0.69	1
7541.740	1050.873	3.51	0.63	0.45	1
7542.724	1051.010	3.74	0.78	0.53	1

U AQL

J.D.	CYCLES	V	B-V	U-B	RF
2762.740	393.333	6.78	1.21		8
2764.753	393.619	6.71	1.08		8
2765.750	393.761	6.20	0.85		8
2766.821	393.914	6.23	0.97		8
2771.746	394.615	6.76	1.08		8
2772.781	394.762	6.16	0.86		8
2773.769	394.903	6.22	0.93		8
3087.927	439.630	6.65	1.05		8
3091.917	440.198	6.63	1.12		8
3092.913	440.339	6.76	1.20		8
3093.899	440.480	6.87	1.25		8
3094.910	440.624	6.65	1.11		8
3095.896	440.764	6.15	0.85		8
3096.882	440.905	6.27	0.92		8
3098.892	441.191	6.59	1.13		8
3101.839	441.610	6.73	1.12		8
3151.736	448.714	6.36	0.89		8
3152.771	448.861	6.20	0.85		8
3153.774	449.004	6.36	1.02		8
3158.715	449.708	6.42	0.90		8
4572.568	650.999	6.60	1.03		7
4574.578	651.285	6.65	1.19		7
4907.496	698.682	6.46	1.02		7
4922.539	700.827	6.09	0.85		7
5242.644	746.398	5.77	1.22	0.93	5
5255.622	748.388	6.78	1.22	0.93	5
5292.519	753.498	6.91	1.24	0.95	5
5302.500	754.919	6.21	0.95		7
5304.398	755.190	6.49	1.12	0.82	6
5305.412	755.334	6.69	1.20	0.90	6
5306.352	755.468	6.84	1.24	0.95	6
5309.456	755.910	6.23	0.96	0.65	6
5310.355	756.038	6.40	1.03	0.74	6
5315.484	756.768	6.09	0.87		7
5370.320	764.575	6.78	1.19		7
7118.887	1013.519	6.84	1.25	0.89	1
7147.754	1017.629	5.65	1.11	0.67	1
7148.813	1017.780	6.07	0.85	0.53	1
7149.826	1017.924	6.24	0.96	0.63	1
7186.687	1023.172	6.43	1.10	0.76	1
7202.640	1025.443	6.82	1.24	0.92	1
7203.704	1025.594	6.78	1.15	0.81	1

U AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7213.674	1027.014	6.38	1.02	0.70	1
7221.635	1028.147	6.38	1.03	0.72	1
7451.908	1060.931	6.25	0.99	0.66	1
7469.903	1063.493	6.89	1.24	0.94	1
7522.814	1071.026	6.46	1.08	0.80	1

SZ AQL

J.D.	CYCLES	V	B-V	U-B	RF
3087.903	180.179	9.06	1.78		8
3089.929	180.298	9.19	1.76		8
3090.885	180.353	9.18	1.72		8
3091.847	180.410	9.09	1.57		8
3092.890	180.470	8.95	1.52		8
3093.875	180.528	8.89	1.46		8
3094.892	180.587	7.97	1.05		8
3095.872	180.644	8.12	1.13		8
3096.868	180.703	8.20	1.20		8
3101.833	180.992	8.69	1.64		8
3145.757	183.555	8.56	1.23		8
3146.740	183.613	7.99	1.05		8
3147.750	183.671	8.16	1.15		8
3148.753	183.730	8.23	1.26		8
3152.710	183.961	8.61	1.59		8
3153.722	184.020	8.74	1.63		8
3154.719	184.078	8.85	1.70		8
4980.408	290.607	7.94	1.04		7
5358.343	312.660	8.10	1.17		7
5646.526	329.475	8.95	1.57		7
5647.398	329.526	8.89	1.52		7
5665.397	330.576	8.06	1.10		7
5681.375	331.509	8.92	1.51		7
7056.934	411.773	8.36	1.39	1.03	1
7094.928	413.990	8.72	1.66	1.45	1
7100.940	414.340	9.18	1.74	1.65	1
7118.837	415.385	9.07	1.64	1.35	1
7131.835	416.143	8.99	1.75	1.61	1
7147.701	417.069	8.89	1.74	1.56	1
7148.754	417.130	8.98	1.76	1.63	1
7149.788	417.191	9.07	1.79	1.77	1
7214.635	420.975	8.72	1.61	1.38	1
7220.611	421.323	9.15	1.73	1.60	1
7469.850	435.837	8.52	1.50	1.26	1
7518.807	438.723	8.24	1.28	1.01	1
7522.784	438.955	8.69	1.62	1.43	1

TT AQL

J.D.	CYCLES	V	B-V	U-B	RF
3087.909	224.503	7.21	1.51		8
3090.392	224.720	7.53	1.63		8
3091.855	224.790	7.65	1.57		8
3092.896	224.866	7.49	1.45		8
3093.882	224.938	7.29	1.35		8
3094.809	225.012	7.19	1.30		8
3095.875	225.083	6.46	0.98		8
3096.870	225.155	6.63	1.04		8

TABLE 1 (continued)

TT AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3101.828	225.515	7.26	1.52		8
3145.760	228.709	7.60	1.61		8
3146.742	228.781	7.60	1.56		8
3148.758	228.927	7.29	1.35		8
3152.719	229.215	6.68	1.14		8
3153.729	229.289	6.83	1.26		8
3154.726	229.361	6.92	1.36		8
4980.416	362.096	6.55	0.96		7
5238.695	380.874	7.48	1.43	1.10	5
5242.631	381.160	6.72	1.09	0.75	5
5256.599	382.176	6.74	1.10	0.77	5
5292.464	384.783	7.70	1.55	1.30	5
5304.410	385.652	7.54	1.57	1.37	6
5305.424	385.726	7.66	1.58	1.40	6
5306.412	385.797	7.67	1.55	1.31	6
5309.411	386.016	7.28	1.28	0.95	6
5310.422	386.089	6.55	0.97	0.47	6
5364.284	390.005	7.31	1.32		7
5365.316	390.080	6.61	0.97		7
5643.401	410.298	6.94	1.29		7
5654.333	411.093	6.53	0.96		7
5655.478	411.176	6.73	1.12		7
5668.464	412.120	6.57	1.00		7
5669.442	412.191	6.75	1.11		7
5683.410	413.207	6.73	1.14		7
7093.903	515.755	7.64	1.64	1.48	1
7118.842	517.568	7.38	1.55	1.39	1
7131.861	518.515	7.28	1.51	1.30	1
7133.847	518.659	7.53	1.64	1.43	1
7147.726	519.668	7.57	1.63	1.47	1
7143.793	519.746	7.64	1.62	1.46	1
7149.807	519.820	7.61	1.54	1.35	1
7178.688	521.919	7.32	1.39	1.00	1
7186.639	522.500	7.18	1.50	1.29	1
7188.701	522.647	7.50	1.62	1.47	1
7189.669	522.718	7.67	1.62	1.45	1
7191.655	522.862	7.51	1.47	1.21	1
7198.695	523.374	7.00	1.36	1.09	1
7200.742	523.523	7.28	1.54	1.39	1
7205.648	523.880	7.44	1.47	1.15	1
7214.644	524.534	7.36	1.53	1.27	1
7461.897	542.510	7.23	1.52	1.28	1
7469.872	543.090	6.59	0.96	0.74	1
7472.829	543.305	6.90	1.29	0.98	1
7522.792	546.937	7.40	1.38	1.03	1

FF AQL

J.D.	CYCLES	V	B-V	U-B	RF
2762.719	617.925	5.58	0.80		8
2764.736	618.377	5.25	0.73		8
2765.717	618.596	5.48	0.79		8
2766.806	618.840	5.55	0.84		8
2768.715	619.267	5.15	0.70		8
2770.778	619.728	5.51	0.85		8
2771.731	619.941	5.54	0.79		8
2772.771	620.174	5.22	0.71		8

FF AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
2773.760	620.395	5.27	0.71		8
2774.823	620.633	5.44	0.83		8
3102.815	693.993	5.49	0.79		8
3103.811	694.216	5.20	0.70		8
3132.708	700.679	5.50	0.81		8
3134.771	701.141	5.31	0.71		8
3136.729	701.579	5.43	0.81		8
3158.674	706.487	5.38	0.75		8
3159.680	706.712	5.50	0.83		8
5238.650	1171.706	5.50	0.84	0.58	5
5242.613	1172.593	5.46	0.84	0.56	5
5256.575	1175.715	5.52	0.85	0.58	5
5292.470	1183.744	5.53	0.87	0.59	5
5305.446	1186.646	5.50	0.86	0.61	6
5306.387	1186.857	5.53	0.86	0.58	6
5309.380	1187.526	5.41	0.81	0.55	6
5310.397	1187.754	5.54	0.86	0.58	6
5358.304	1198.469	5.33	0.76		7
5365.293	1200.032	5.39	0.77		7
5370.308	1201.154	5.24	0.71		7
5612.521	1255.328	5.22	0.69		7
5621.469	1257.330	5.22	0.71		7
5625.557	1258.244	5.19	0.66		-7
5626.482	1258.451	5.31	0.74		7
5629.555	1259.138	5.29	0.70		7
7048.958	1576.610	5.43	0.82	0.55	1
7051.911	1577.270	5.19	0.73	0.42	1
7052.863	1577.483	5.38	0.78	0.51	1
7054.824	1577.922	5.47	0.86	0.49	1
7091.936	1586.223	5.27	0.70	0.48	1
7093.879	1586.657	5.48	0.84	0.56	1
7094.915	1586.889	5.51	0.84	0.54	1
7100.926	1588.233	5.18	0.71	0.46	1
7102.935	1588.683	5.49	0.84	0.55	1
7118.766	1592.228	5.21	0.68	0.43	1
7131.910	1595.141	5.30	0.73	0.47	1
7458.946	1668.310	5.32	0.69	0.56	1
7469.847	1670.748	5.56	0.84	0.60	1
7518.784	1681.694	5.50	0.83	0.58	1
7521.754	1682.358	5.25	0.71	0.49	1
7522.775	1682.583	5.48	0.82	0.61	1
7533.727	1685.036	5.41	0.77	0.52	1
7592.627	1698.210	5.23	0.67	0.52	1

FN AQL

J.D.	CYCLES	V	B-V	U-B	RF
2773.762	453.657	7.98	1.14		8
2788.823	456.120	8.48	1.30		8
2789.833	456.285	8.59	1.52		8
2790.812	456.445	8.33	1.29		8
2791.799	456.607	7.95	1.10		8
2792.802	456.771	8.11	1.27		8
3091.879	505.686	8.04	1.19		8
3092.908	505.854	8.31	1.30		8
3093.891	506.015	8.40	1.43		8
3094.887	506.178	8.59	1.51		8

TABLE 1 (continued)

FM AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3095.867	506.338	8.61	1.45		8
3096.861	506.501	8.08	1.14		8
3098.863	[illegible]	8.25	1.32		8
3152.738	[illegible]	7.94	1.14		8
3153.740	[illegible]	8.15	1.28		8
3154.736	515.966	8.34	1.34		8
5238.667	856.799	8.17	1.29	0.94	5
5242.627	857.447	8.29	1.29	0.87	5
5256.585	859.730	8.10	1.24	0.87	5
5292.488	865.602	7.92	1.13	0.76	5
5305.436	867.719	8.06	1.22	0.86	6
5306.395	867.876	8.26	1.34	0.98	6
5309.389	868.[illegible]66	8.57	1.39	1.05	6
5310.404	868.332	7.97	1.14	0.78	6
5328.[illegible]07	871.476	8.18	1.23		7
5359.[illegible]5	876.522	8.01	1.16		7
[illegible]	[illegible]7.346	7.61	1.45		7
537[illegible]	878.649	7.99	1.20		7
564[illegible]	923.507	8.08	1.21		7
564[illegible]	923.652	7.99	1.19		7
5652.377	924.463	8.19	1.27		7
5665.405	926.593	7.92	1.[illegible]3		7
5678.434	928.724	8.05	1.27		7
5683.416	929.539	7.92	1.13		7
5689.344	930.509	8.01	1.16		7
7056.[illegible]04	1154.177	8.59	1.49	1.10	1
7118.850	1164.309	8.66	1.47	1.15	1
7131.872	1166.438	8.33	1.35	0.78	1
7132.849	1166.598	7.93	1.17	0.74	1
7133.849	1166.762	8.11	1.28	0.84	1
7147.734	1169.033	8.42	1.43	1.04	1
7148.799	1169.207	8.59	1.50	1.14	1
7149.813	1169.373	8.52	1.41	0.99	1
7186.677	1175.402	8.42	1.36	0.92	1
7191.663	1176.217	8.59	1.47	1.13	1
7201.683	1177.856	8.24	1.34	0.95	1
7205.655	1178.506	8.03	1.19	0.78	1
7214.653	1179.977	8.35	1.40	0.97	1
7461.903	1220.416	8.38	1.34	0.89	1
7469.885	1221.721	8.08	1.23	0.89	1
7522.799	1230.376	8.60	1.39	1.06	1

FN AQL

J.D.	CYCLES	V	B-V	U-B	RF
3087.910	325.652	8.06	1.11		8
3090.900	325.967	8.52	1.37		8
3091.862	326.069	8.79	1.39		8
3092.903	326.179	8.78	1.40		8
3093.890	326.283	8.60	1.32		8
3094.904	326.390	8.44	1.25		8
3095.878	326.492	8.29	1.16		8
3096.875	326.597	8.12	1.05		8
3145.767	331.754	8.28	1.16		8
3148.750	331.857	8.28	1.26		8
3152.725	332.487	8.25	1.17		8
3153.731	332.594	8.12	1.09		8

FN AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3154.729	332.699	8.12	1.13		8
4907.484	517.545	8.25	1.12		7
5238.690	552.474	8.35	1.16	0.80	5
5242.639	552.890	8.40	1.29	0.97	5
5256.595	554.362	8.47	1.23	0.87	5
5292.500	558.149	8.72	1.38	1.07	5
5304.415	559.405	8.40	1.20	0.84	6
5305.428	559.512	8.27	1.15	0.81	6
5306.407	559.615	8.13	1.11	0.78	6
5309.404	559.931	8.43	1.31	1.03	6
5310.417	560.038	8.60	1.38	1.09	6
5315.463	560.570	8.15	1.13		7
5363.304	565.616	8.11	1.10		-7
5364.300	565.721	8.17	1.17		7
5647.432	595.580	8.15	1.10		7
5654.341	596.309	8.49	1.27		7
5655.487	596.429	8.36	1.20		7
5665.430	597.478	8.31	1.17		7
5668.473	597.799	8.23	1.22		7
5685.406	599.585	8.17	1.13		7
7118.865	750.758	8.22	1.22	0.84	1
7131.885	752.131	8.67	1.36	1.13	1
7133.856	752.339	8.42	1.25	0.81	1
7147.744	753.803	8.30	1.26	0.88	1
7148.806	753.915	8.43	1.34	1.00	1
7149.820	754.022	8.59	1.39	1.11	1
7201.699	759.494	8.27	1.15	0.78	1
7205.664	759.912	8.42	1.34	1.01	1
7213.655	760.754	8.24	1.22	0.80	1
7214.660	760.860	8.24	1.25	1.01	1
7461.912	786.936	8.46	1.36	1.03	1
7469.891	787.777	8.29	1.23	0.89	1
7522.807	793.358	8.56	1.19	0.93	1

KL AQL

J.D.	CYCLES	V	B-V	U-B	RF
6751.781	1105.389	10.51	1.09		3
6752.785	1105.553	10.55	1.09	0.99	3
6773.726	1108.982	10.07	0.92	0.80	3
6774.712	1109.143	10.33	1.07	0.85	3
6776.740	1109.475	10.49	1.22	0.[illegible]7	3
6777.792	1109.647	10.25	0.95	0.67	3
6778.770	1109.807	9.84	0.77	0.53	3
6784.726	1110.783	9.83	0.78	0.55	3
6785.714	1110.944	9.97	0.91	0.68	3
6787.702	1111.270	10.36	1.10	0.97	3
6789.760	1111.607	10.43	1.03	0.82	3
6806.684	1114.377	10.48	1.15	0.90	3
6807.689	1114.542	10.57	1.15	0.84	3
6808.680	1114.704	10.09	0.88	0.60	3
6809.678	1114.868	9.92	0.81	0.61	3
6810.677	1115.031	10.15	0.97	0.71	3
6811.683	1115.196	10.32	1.05	0.79	3
6815.665	1115.848	9.92	0.83	0.61	2
6815.674	1115.849	9.90	0.81	0.61	3
6816.648	1116.009	10.10	0.96	0.69	3

TABLE I (continued)

KL AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6816.738	1116.023	10.08	0.98	0.70	2
6817.700	1116.181	10.53	1.07	0.79	2
6818.698	1116.344	10.47	1.08	0.89	2
6819.656	1116.501	10.60	1.13	0.92	2
6820.684	1116.669	10.18	0.91	0.61	2
6833.719	1118.804	9.92	0.78	0.58	2
6834.713	1118.966	10.02	0.90	0.69	2
6836.657	1119.285	10.36	1.12	0.87	2
6843.659	1120.431	10.59	1.18		3
6845.634	1120.754	9.87	0.60	0.52	3
6846.644	1120.920	9.99	0.88	0.66	3
6846.712	1120.931	9.94	0.89	0.66	2
6853.621	1122.062	10.18	0.96	0.74	2
6856.628	1122.554	10.50	1.13		2
6856.706	1122.567	9.88	0.85		2
6857.626	1122.718	9.98	0.86		2

PZ AQL

J.D.	CYCLES	V	B-V	U-B	RF
7131.821	815.103	11.72	1.39	1.11	1
7203.661	823.313	11.30	1.31	1.01	1
7229.604	826.278	11.35	1.26	0.96	1
7232.612	826.622	11.73	1.55	1.18	1
7233.597	826.735	11.93	1.65	1.33	1
7469.839	853.735	11.95	1.68	1.44	1
7521.738	859.666	11.77	1.64	1.41	1
7601.571	868.791	11.95	1.69	1.47	1

336 AQL

J.D.	CYCLES	V	B-V	U-B	RF
4989.343	683.139	10.21	1.57		7
5328.392	729.562	9.54	1.19		7
5363.395	734.354	9.88	1.36		-7
5364.277	734.475	9.48	1.15		7
5612.533	768.466	9.52	1.17		7
5626.494	770.378	9.82	1.29		7
5627.496	770.515	9.51	1.17		7
6735.874	922.274	10.16	1.48		2
6736.801	922.401	9.82	1.30		2
6736.916	922.416	9.71	1.27		2
6742.698	923.208	10.27	1.51		2
6743.767	923.354	9.84	1.35		2
6744.688	923.481	9.63	1.23		2
6745.729	923.623	9.59	1.33		2
6746.692	923.755	9.76	1.43		2
6747.721	923.896	9.92	1.41		2
6748.719	924.032	10.05	1.51		2
6749.721	924.170	10.23	1.53		2
6753.742	924.720	9.77	1.33		2
6757.710	925.264	10.28	1.55		2
6759.749	925.543	9.54	1.19		2
6760.805	925.687	9.77	1.31		2
6761.713	925.811	9.80	1.38		2
6765.748	926.364	9.93	1.31		2
6767.677	926.628	9.67	1.29		2

336 AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6807.726	932.112	10.16	1.51	1.20	2
6808.688	932.243	10.27	1.52	1.15	2
6810.663	932.514	9.48	1.17	0.85	2
6833.627	935.658	9.69	1.29	0.92	2
7203.676	986.325	10.02	1.41	1.00	1
7229.612	989.876	9.80	1.39	1.03	1
7233.603	990.423	9.71	1.23	0.83	1
7234.599	990.559	9.52	1.19	0.82	1
7239.585	991.242	10.22	1.54	1.16	1
7469.854	1022.770	9.76	1.36	1.01	1
7521.763	1029.877	9.82	1.40	1.06	1

493 AQL

J.D.	CYCLES	V	B-V	U-B	RF
5612.438	1879.880	11.18	1.37		7
5612.545	1879.916	11.20	1.39		7
5623.462	1883.572	10.81	1.16		7
5624.596	1883.952	11.23	1.41		7
5625.548	1884.271	11.33	1.32		7
5626.441	1884.570	10.82	1.14		7
5627.487	1884.921	11.19	1.38		7
5628.461	1885.247	11.33	1.33		7
5629.565	1885.617	10.86	1.17		7
5630.516	1885.935	11.19	1.39		7
5631.462	1886.252	11.32	1.37		7
5636.494	1887.938	11.21	1.40		7
5637.461	1888.261	11.30	1.33		7
5638.482	1888.603	10.83	1.15		7
5639.517	1888.950	11.25	1.35		7
5640.556	1889.298	11.22	1.31		7
5641.483	1889.609	10.84	1.16		7
5642.543	1889.964	11.24	1.38		7
5643.363	1890.238	11.34	1.34		7
5646.486	1891.284	11.27	1.46		7
5652.366	1893.254	11.27	1.35		7
5654.310	1893.905	11.16	1.34		-7
5655.440	1894.283	11.29	1.32		7
5655.554	1894.322	11.13	1.30		7
5660.571	1896.002	11.27	1.36		7
5661.420	1896.286	11.33	1.39		-7
5665.385	1897.615	10.84	1.18		7
5668.448	1898.640	10.82	1.20		7
5669.422	1898.967	11.23	1.37		7
5672.430	1899.974	11.25	1.33		7
5681.363	1902.966	11.19	1.39		7
5682.336	1903.292	11.32	1.31		7
5683.393	1903.646	10.81	1.17		7
5685.396	1904.317	11.21	1.33		7
5686.396	1904.652	10.86	1.20		7
5687.422	1904.996	11.23	1.38		7
5688.299	1905.290	11.21	1.27		-7
5689.335	1905.637	10.82	1.19		7
5691.298	1906.294	11.26	1.37		7
5692.343	1906.644	10.85	1.19		7

TABLE 1 (continued)

496 AQL

J.D.	CYCLES	V	B-V	U-B	RF
4552.962	668.875	7.70	1.09		9
4565.878	670.772	7.77	1.13		9
4566.847	670.914	7.63	1.11		9
4567.844	671.061	7.63	1.08		9
4570.837	671.501	7.90	1.30		9
4574.816	672.085	7.64	1.14		9
4575.868	672.240	7.72	1.21		9
4989.355	732.985	7.61	1.06		7
5238.657	769.610	7.97	1.23	0.95	5
5242.660	770.198	7.74	1.16	0.86	5
5256.612	772.248	7.78	1.17	0.88	5
5302.491	778.988	7.60	1.08		7
5304.402	779.268	7.77	1.18	0.89	6
5305.415	779.417	7.86	1.23	0.93	6
5306.344	779.554	7.96	1.26	0.98	6
5309.435	780.008	7.62	1.08	0.76	6
5310.446	780.156	7.70	1.14	0.84	6
5315.452	780.892	7.65	1.11		7
5643.393	829.070	7.65	1.11		7
5647.412	829.660	7.97	1.26		7
5654.324	830.675	7.97	1.24		7
5655.469	830.844	7.71	1.13		7
5669.431	832.895	7.66	1.07		7
5678.386	834.210	7.71	1.20		7
5683.404	834.948	7.56	1.06		7
7094.931	1042.315	7.78	1.21	0.90	1
7100.932	1043.196	7.70	1.19	0.83	1
7118.826	1045.825	7.76	1.14	0.75	1
7131.849	1047.738	7.88	1.17	0.85	1
7147.719	1050.070	7.67	1.10	0.78	1
7148.761	1050.223	7.69	1.17	0.83	1
7149.801	1050.376	7.81	1.23	0.91	1
7178.681	1054.618	7.97	1.27	0.94	1
7186.659	1055.790	7.86	1.20	0.86	1
7188.678	1056.087	7.58	1.12	0.78	1
7189.658	1056.231	7.71	1.17	0.85	1
7191.648	1056.523	7.93	1.27	0.98	1
7198.685	1057.557	7.93	1.27	0.97	1
7205.642	1058.579	7.94	1.28	0.96	1
7469.867	1097.396	7.87	1.24	0.93	1
7472.822	1097.831	7.74	1.13	0.78	1

572 AQL

J.D.	CYCLES	V	B-V	U-B	RF
5364.340	1400.611	11.24	0.72		7
5372.294	1402.688	11.12	0.72		7
5543.426	1473.479	11.22	0.74		7
5654.441	1476.355	11.24	0.75		7
5655.523	1476.638	10.90	0.62		7
5660.605	1477.965	11.30	0.81		7
5669.481	1480.282	11.29	0.77		7
5631.399	1483.394	11.09	0.66		7
5682.436	1483.665	11.06	0.66		7
5683.429	1483.924	11.32	0.84		7
5685.432	1484.447	11.02	0.65		7
5686.421	1484.705	11.13	0.76		7

572 AQL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5687.452	1484.974	11.36	0.86		7
5688.334	1485.205	11.19	0.74		7
6751.792	1762.870	11.02	0.67		3
6752.794	1763.132	11.15	0.76		3
6776.753	1769.387	11.45	0.52	0.55	3
6778.781	1769.917	11.07	0.65	0.59	3
6784.755	1771.477	11.35	0.79	0.49	3
6785.723	1771.729	11.04	0.64	0.49	3
6786.716	1771.989	11.21	0.75	0.54	3
6787.713	1772.249	11.43	0.85	0.64	3
6789.768	1772.785	11.04	0.64	0.45	3
6791.825	1773.323	11.45	0.85	0.52	3
6792.711	1773.554	11.25	0.71		3
6793.706	1773.814	11.07	0.67	0.43	3
6808.687	1777.725	11.00	0.64	0.52	3
6809.685	1777.986	11.32	0.78	0.48	3
6812.666	1778.764	11.01	0.69	0.51	3
6813.661	1779.024	11.29	0.86	0.57	3
6815.683	1779.552	11.09	0.67	0.49	3
6816.663	1779.808	11.09	0.72	0.52	3
6819.674	1780.594	11.05	0.67	0.40	3
6841.688	1786.342	11.28	0.83	0.55	3
6845.641	1787.374	10.97	0.91	0.47	-3
6846.650	1787.637	11.04	0.67	0.47	3

600 AQL

J.D.	CYCLES	V	B-V	U-B	RF
4989.366	689.248	10.34	1.71		7
5315.474	734.298	10.39	1.72		7
5359.264	740.347	10.41	1.68		7
5643.413	779.601	9.77	1.36		7
5652.387	780.841	9.90	1.51		7
5654.350	781.112	10.17	1.62		7
5655.497	781.270	10.33	1.69		7
5660.584	781.973	10.03	1.49		7
5665.441	782.644	9.71	1.36		7
5669.454	783.198	10.30	1.68		7
5685.417	785.403	10.36	1.62		7
5686.409	785.540	9.93	1.43		7
5687.434	785.682	9.78	1.37		7
5688.312	785.803	9.80	1.47		7
7056.913	974.867	9.99	1.33	1.05	1
7198.708	994.455	10.12	1.53	1.10	1
7202.629	994.996	10.06	1.59	1.15	1
7203.692	995.143	10.22	1.64	1.29	1
7229.619	998.725	9.82	1.61	1.00	1
7461.919	1030.816	9.90	1.51	1.12	1
7469.897	1031.918	9.97	1.51	1.15	1
7472.835	1032.324	10.36	1.69	1.33	1
7593.631	1049.011	10.06	1.58	1.23	1
7601.546	1050.104	10.15	1.60	1.29	1
7635.570	1054.804	9.80	1.47	1.06	1

DU ARA

J.D.	CYCLES	V	B-V	U-B	RF
5201.632	3170.393	12.44	0.70	0.40	-5

TABLE I (continued)

DU ARA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5216.598	3179.515	11.73	0.48	0.31	6
5242.603	3195.365	12.40	0.60	0.54	-5
5243.633	3195.993	12.65	0.45	0.20	-5
5244.597	3196.560	11.73	0.56	0.26	-5
5246.592	3197.798	12.19	0.87	0.62	-5
5250.591	3200.233	12.45	0.67	0.38	-5
5256.529	3203.853	12.14	0.77	0.69	-5
5273.440	3214.160	12.44	0.83	0.58	6
5275.363	3215.332	12.14	0.67	0.47	6
5277.398	3216.572	11.76	0.54	0.33	6
5278.382	3217.172	12.37	0.82	0.58	6
5305.322	3233.592	11.82	0.56	0.28	6
5310.321	3236.639	11.82	0.62	0.42	6

Y AUR

J.D.	CYCLES	V	B-V	U-B	RF
6809.984	1764.493	9.17	0.72	0.51	2
6812.941	1765.259	9.97	1.09	0.69	2
6813.915	1765.512	9.16	0.73	0.50	2
6814.934	1765.776	9.62	0.95	0.57	2
6815.956	1766.041	9.89	1.08	0.70	2
6815.997	1766.053	9.80	1.11	0.71	3
6816.941	1766.296	9.95	1.05	0.66	2
6816.995	1766.310	9.92	1.01	0.68	3
6817.980	1766.560	9.25	0.75	0.55	2
6817.999	1766.570	9.26	0.78	0.54	3
6818.926	1766.810	9.68	0.98	0.61	2
6818.986	1766.826	9.66	0.99	0.63	3
6819.924	1767.069	9.5[illegible]	1.10	0.64	2
6819.991	1767.086	9.63	1.09	0.69	3
6833.958	1770.705	9.49	0.91	0.58	2
6834.944	1770.961	9.78	1.06	0.68	2
6836.959	1771.483	9.15	0.72	0.54	2
6845.021	1773.572	9.28	0.80	0.51	3
6845.998	1773.825	9.64	1.03	0.62	3
6846.997	1774.083	9.95	1.10	0.72	3
6849.000	1774.602	9.30	0.81	0.51	3
6849.888	1774.833	9.66	1.00	0.62	2
6849.936	1774.858	9.69	1.00	0.65	3
6852.854	1775.611	9.36	0.80	0.55	2
6853.894	1775.871	9.72	1.06	0.62	2
6856.862	1776.640	9.41	0.84		2
6857.834	1776.891	9.75	1.02		2
6858.899	1777.167	9.94	1.09		2
7592.920	1967.355	9.72	0.96	0.60	1

RT AUR

J.D.	CYCLES	V	B-V	U-B	RF
2822.007	756.923	5.51	0.70		9
2825.012	757.729	5.25	0.55		9
2833.028	759.879	5.45	0.65		9
2841.975	762.279	5.81	0.80		9
2848.962	764.153	5.78	0.78		9
2860.984	767.378	5.81	0.76		9
2882.903	773.257	5.81	0.78		9
2883.896	773.523	5.70	0.50		9

RT AUR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
2885.906	774.062	5.63	0.77		9
2944.931	789.894	5.43	0.68		9
3020.741	810.228	5.79	0.80		9
3233.920	867.407	5.78	0.72		9
3238.899	868.743	5.26	0.57		9
3249.892	871.691	5.22	0.52		9
4335.062	1162.757	5.31	0.60		9
4337.052	1163.292	5.83	0.81		9
4342.049	1164.631	5.12	0.45		9
4418.885	1185.240	5.79	0.81		9
4424.865	1186.844	5.43	0.64		9
4425.856	1187.110	5.74	0.80		9
4427.819	1187.637	5.11	0.45		9
4459.728	1195.195	5.76	0.79		9
4460.740	1196.472	5.45	0.57		9
7014.694	1881.492	5.21	0.49	0.28	1
7015.599	1881.735	5.24	0.54	0.32	1
7020.622	1883.082	5.69	0.75	0.36	1
7022.610	1883.615	5.06	0.42	0.28	1
7023.661	1883.897	5.51	0.65	0.41	1
7024.611	1884.152	5.76	0.75	0.50	1
7043.625	1889.255	5.77	0.78	0.49	1
7045.631	1889.790	5.41	0.55	0.37	1
7240.874	1942.159	5.73	0.80	0.47	1
7273.888	1951.014	5.60	0.75	0.43	1
7668.743	2056.922	5.51	0.76	0.43	1

RX AUR

J.D.	CYCLES	V	B-V	U-B	RF
2861.005	246.112	7.68	1.05		9
2882.976	248.002	7.54	0.95		9
2883.952	248.086	7.59	1.03		9
2885.995	248.262	7.98	1.13		9
2944.903	253.329	8.10	1.12		9
3181.031	273.642	7.67	0.91		9
3216.917	276.729	7.38	0.81		9
4335.049	372.914	7.49	0.94		9
4337.016	373.083	7.62	1.01		9
4341.986	373.511	7.85	1.02		9
4369.941	375.915	7.48	0.92		9
4418.844	380.122	7.74	1.07		9
4424.901	380.643	7.67	0.91		9
4425.840	380.724	7.44	0.84		9
4427.809	380.893	7.45	0.88		9
4460.705	383.723	7.43	0.81		9
7240.794	622.875	7.46	0.94	0.57	1
7265.715	625.019	7.64	1.06	0.69	1
7273.863	625.719	7.34	0.80	0.46	1
7597.832	653.588	7.65	0.93	0.67	1
7600.781	653.842	7.45	0.88	0.61	1
7601.773	653.927	7.54	0.96	0.68	1
7619.831	655.481	7.81	1.03	0.69	1
7625.720	655.815	7.37	0.87	0.59	1
7626.760	656.077	7.72	1.11	0.81	1
7634.896	656.777	7.33	0.82	0.55	1
7635.705	656.846	7.49	0.92	0.61	1

TABLE I (continued)

RX AUR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7645.810	657.715	7.37	0.78	0.52	1
7646.715	657.793	7.44	0.82	0.52	1
7647.695	657.878	7.51	0.90	0.51	1
7652.793	658.316	7.98	1.15	0.86	1
7654.709	658.481	7.83	1.01	0.68	1
7655.728	658.569	7.76	0.95	0.66	1
7656.675	658.650	7.58	0.86	0.57	1
7658.710	658.825	7.34	0.93	0.51	1
7660.671	658.994	7.61	1.01	0.72	1
7661.653	659.078	7.73	1.08	0.80	1
7663.677	659.252	7.96	1.15	0.90	1

SY AUR

J.D.	CYCLES	V	B-V	U-B	RF
6808.976	671.229	9.38	1.15	0.84	2
6809.967	671.327	9.19	1.09	0.70	2
6810.910	671.420	8.93	1.01	0.66	2
6811.984	671.526	8.84	0.93	0.66	2
6812.923	671.618	8.76	0.92	0.64	2
6813.906	671.715	8.84	1.00	0.67	2
6814.917	671.815	9.07	1.10	0.73	2
6815.930	671.915	9.15	1.15	0.82	2
6816.926	672.013	9.29	1.21	0.84	2
6817.946	672.113	9.37	1.22	0.85	2
6818.007	672.120	9.35	1.22	0.85	3
6818.909	672.209	9.38	1.18	0.82	2
6818.980	672.215	9.32	1.19	0.81	3
6819.908	672.307	9.24	1.10	0.70	2
6819.931	672.311	9.21	1.10	0.74	3
6833.933	673.690	8.82	0.97		2
6836.946	673.987	9.22	1.20	0.86	2
6844.996	674.780	9.01	1.06	0.68	3
6845.993	674.878	9.10	1.15	0.35	3
6846.990	674.977	9.23	1.20	0.90	3
6848.974	675.172	9.37	1.20	0.81	3
6849.870	675.261	9.28	1.15	0.79	2
6849.979	675.271	9.31	1.12	0.73	3
6852.883	675.558	8.80	0.92	0.64	2
6853.883	675.656	8.76	0.96	0.64	2
6855.813	675.846	9.05	1.17		2
6856.851	675.949	9.23	1.16		2
6857.820	676.044	9.31	1.22		2
6858.887	676.149	9.36	1.22		2

YZ AUR

J.D.	CYCLES	V	B-V	U-B	RF
6809.974	374.320	10.41	1.34	0.83	2
6811.991	374.431	9.94	1.14	0.78	2
6812.930	374.483	9.98	1.20	0.79	2
6813.915	374.537	9.99	1.27	0.80	2
6814.925	374.593	10.13	1.33	0.93	2
6815.938	374.648	10.17	1.39	1.01	2
6816.934	374.703	10.26	1.47	1.20	2
6817.953	374.759	10.32	1.49	1.10	2
6818.918	374.812	10.43	1.53	1.20	2
6819.916	374.867	10.47	1.58	1.23	2

YZ AUR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6833.941	375.638	10.15	1.42	0.95	2
6834.937	375.693	10.18	1.44	1.09	2
6836.952	375.803	10.38	1.55	1.24	2
6849.881	376.514	9.99	1.23	0.88	2
6852.888	376.679	10.20	1.42	1.12	2
6853.888	376.734	10.28	1.53	1.11	2
6856.857	376.897	10.57	1.60		2
6357.828	376.951	10.64	1.61		2
6858.894	377.009	10.68	1.62		2

AN AUR

J.D.	CYCLES	V	B-V	U-B	RF
6809.930	661.749	10.31	1.10	0.71	2
6810.983	661.832	10.32	1.09	0.74	2
6811.979	661.948	10.24	1.09	0.74	2
6812.916	662.040	10.20	1.12	0.78	2
6813.899	662.135	10.35	1.26	0.88	2
6814.909	662.233	10.49	1.33	0.93	2
6815.921	662.332	10.61	1.37	1.19	2
6816.919	662.429	10.79	1.43	1.02	2
6817.940	662.528	10.80	1.38	0.93	2
6817.964	662.[illegible]	10.73	1.31	0.80	3
6818.898	662.621	10.55	1.33	0.84	2
6818.965	662.627	10.55	1.22	0.70	3
6819.901	662.718	10.40	1.15	0.74	2
6819.934	662.722	10.29	1.16	0.64	3
6833.912	664.080	10.32	1.21	0.79	2
6834.999	664.185	10.41	1.30	1.00	2
6836.938	664.374	10.33	1.42	1.06	2
6844.981	665.155	10.32	1.23	0.73	3
6845.961	665.251	10.45	1.26	0.96	3
6846.944	665.346	10.57	1.33	0.84	3
6849.856	665.629	10.57	1.25	0.86	2
6852.863	665.921	10.25	1.13	0.76	2
6853.836	666.016	10.16	1.13	0.74	2
6855.906	666.217	10.41	1.34		2
6856.844	666.308	10.64	1.38		2
6857.813	666.402	10.74	1.48		2
6858.881	666.506	10.78	1.46		2

AO AUR

J.D.	CYCLES	V	B-V	U-B	RF
6836.968	1010.937	10.54	0.88	0.57	2
6849.896	1012.849	11.11	1.11	0.70	2
6852.902	1013.293	10.83	1.05	0.66	2
6858.906	1014.181	10.61	0.99		2

BK AUR

J.D.	CYCLES	V	B-V	U-B	RF
6816.988	851.880	9.22	1.01	0.66	3
6817.974	852.003	9.33	1.08	0.74	3
6818.973	852.128	9.53	1.17	0.80	3
6819.944	852.249	9.66	1.26	0.96	3
6844.990	855.379	9.82	1.25	0.84	3
6845.985	855.504	9.66	1.13	0.77	3

TABLE 1 (continued)

BK AUR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6846.985	855.628	9.23	0.94	0.61	3
6848.968	855.876	9.23	1.01	0.63	3
6849.972	856.002	9.35	1.06	0.72	3
7597.837	949.458	9.73	1.18	0.86	1
7600.787	949.827	9.25	0.98	0.69	1
7601.778	949.951	9.23	1.00	0.71	1
7619.839	952.208	9.60	1.23	0.90	1
7623.727	952.693	9.09	0.91	0.65	1
7626.767	953.073	9.45	1.16	0.82	1
7634.904	954.090	9.48	1.16	0.80	1
7635.712	954.191	9.63	1.24	0.89	1
7645.819	955.454	9.73	1.19	0.85	1
7647.702	955.689	9.12	0.86	0.59	1
7649.778	955.949	9.27	1.01	0.67	1
7652.800	956.327	9.74	1.23	0.93	1
7653.742	956.444	9.76	1.17	0.86	1
7654.721	956.557	9.46	1.04	0.69	1
7655.735	956.693	9.14	0.93	0.70	1
7656.682	956.812	9.22	0.97	0.66	1
7660.678	957.311	9.74	1.24	0.93	1

RU CAM

J.D.	CYCLES	V	B-V	U-B	RF
2821.017	127.452	8.42	1.04		9
2822.012	127.497	8.30	1.01		9
2825.017	127.633	8.30	1.04		9
2833.031	127.995	8.87	1.45		9
2848.969	128.715	8.32	1.21		9
2860.922	129.255	9.09	1.34		9
2884.008	130.298	8.80	1.32		[illegible]
2885.899	130.383	8.57	1.12		9
2887.883	130.473	8.32	1.02		9
2944.965	133.052	8.92	1.46		9
3009.972	135.989	8.84	1.45		9
3027.972	136.802	8.40	1.29		9
7014.642	316.917	8.19	1.09	0.91	1
7015.641	316.962	8.22	1.13	0.94	1
7016.736	317.012	8.27	1.15	1.02	1
7020.663	317.189	8.62	1.27	1.13	1
7021.795	317.240	8.80	1.31	1.16	1
7022.588	317.276	8.90	1.29	1.15	1
7022.783	317.285	8.97	1.25	1.21	1
7023.667	317.325	9.10	1.21	1.19	1
7024.618	317.368	9.10	1.30	1.17	1
7045.638	318.317	8.83	1.32	1.16	1
7049.662	318.499	8.75	1.15	0.91	1
7052.636	318.634	8.43	0.99	0.70	1

RW CAM

J.D.	CYCLES	V	B-V	U-B	RF
6809.881	414.706	9.06	1.49	0.73	2
6810.941	414.770	8.92	1.47	0.77	2
6811.931	414.831	8.83	1.40	0.73	2
6812.992	414.895	8.81	1.29	0.73	3
6813.860	414.948	8.49	1.29	0.74	2

RW CAM CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6813.985	414.956	8.43	1.30	0.73	3
6814.855	415.009	8.28	1.23	0.74	2
6814.990	415.017	8.20	1.22	0.78	3
6815.849	415.069	8.26	1.25	0.79	2
6815.970	415.076	8.25	1.29	0.78	3
6816.851	415.130	8.37	1.35	0.83	2
6816.974	415.138	8.34	1.34	0.81	3
6817.870	415.192	8.44	1.38	0.83	2
6817.939	415.196	8.41	1.40	0.86	3
6818.858	415.252	8.53	1.44	0.87	2
6818.902	415.255	8.49	1.44	0.86	3
6819.814	415.311	8.62	1.47	0.83	2
6819.884	415.315	8.57	1.48	0.88	3
6820.845	415.373	8.66	1.52	0.87	2
6828.865	415.862	8.85	1.39		4
6829.935	415.927	8.68	1.39		4
6830.967	415.990	8.23	1.23		4
6832.932	416.109	8.32	1.28		4
6833.881	416.167	8.40	1.36	0.86	2
6834.924	416.231	8.46	1.42	0.91	2
6836.906	416.351	8.62	1.49	0.88	2
6837.914	416.413	8.73	1.56		4
6843.896	416.777	8.86	1.45		4
6843.924	416.779	8.86	1.43		4
6844.924	416.840	8.80	1.39	0.73	3
6845.931	416.901	8.81	1.36	0.71	3
6845.929	416.962	8.39	1.27	0.71	3
6847.809	417.015	8.20	1.21		4
6847.865	417.019	8.20	1.18		4
6848.910	417.082	8.27	1.25	0.80	3
6849.847	417.140	8.36	1.34	0.82	2
6852.826	417.321	8.61	1.49	0.85	2
6853.843	417.383	8.70	1.52	0.88	2
6856.816	417.564	9.00	1.54		2
6857.782	417.623	9.01	1.50		2
6879.878	418.968	8.30	1.22		4
6880.851	419.028	8.20	1.20		4
6972.655	424.618	9.00	1.53		4
6977.659	424.923	8.67	1.32		4

RX CAM

J.D.	CYCLES	V	B-V	U-B	RF
2789.003	352.310	7.37	1.08		8
2790.969	352.758	7.43	1.16		8
2792.031	352.892	7.74	1.27		8
2797.955	353.641	7.51	1.10		8
2860.785	361.582	7.25	1.05		8
2864.958	362.110	7.86	1.43		8
2882.899	364.377	7.37	1.29		8
2883.875	364.501	7.42	1.11		8
2885.919	364.759	7.45	1.16		8
2887.889	365.008	7.76	1.38		8
2944.840	372.206	8.06	1.48		8
2947.705	372.569	7.27	1.03		8
3152.903	398.641	7.42	1.11		8
3154.950	398.763	7.45	1.17		8
3158.920	399.265	8.13	1.43		8

TABLE I (continued)

RX CAM CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3178.917	401.792	7.56	1.15		8
3180.000	401.929	7.70	1.33		8
3180.972	402.052	7.84	1.39		8
3190.920	403.309	8.08	1.42		8
3206.801	405.316	8.03	1.38		8
3216.843	406.586	7.29	1.05		8
3233.688	408.715	7.51	1.20		8
3238.712	409.350	8.02	1.36		8
6796.970	859.088	7.86	1.41		2
6807.953	860.476	7.66	1.24	0.88	2
6808.940	860.601	7.32	1.08	0.84	2
6809.808	860.720	7.52	1.19	0.90	2
6810.948	860.854	7.46	1.23	0.90	2
6811.943	860.980	7.73	1.34	1.02	2
6813.868	861.223	8.00	1.45	1.13	2
6814.863	861.349	8.12	1.39	1.02	2
6816.859	861.601	7.35	1.09	0.79	2
6817.952	861.740	7.50	1.20	0.88	2
6818.866	861.855	7.46	1.20	0.90	2
6819.869	861.982	7.73	1.34	1.00	2
6828.870	863.120	7.90	1.44		4
6829.938	863.255	8.07	1.51		4
6830.970	863.385	7.91	1.34		4
6832.935	863.633	7.41	1.10		4
6833.888	863.754	7.53	1.20	0.87	2
6834.931	863.886	7.51	1.23	0.89	2
6836.912	864.136	7.94	1.41	1.07	2
6837.923	864.264	8.06	1.48		4
6843.899	865.019	7.72	1.36		4
6843.927	865.023	7.72	1.35		4
6847.813	865.514	7.47	1.12		4
6847.871	865.521	7.44	1.10		4
6852.831	866.148	7.94	1.41	1.08	2
6853.849	866.277	8.07	1.46	1.10	2
6856.822	866.652	7.43	1.13		2
6857.788	866.775	7.50	1.19		2
6858.856	866.910	7.59	1.26		2
6879.882	869.567	7.30	1.06		4
6880.855	869.690	7.46	1.16		4
6951.693	878.643	7.38	1.11		4
6953.675	878.894	7.52	1.23		4
6971.659	881.167	7.96	1.43		4
6972.658	881.293	8.06	1.43		4
6975.637	881.670	7.45	1.14		4
6977.657	881.925	7.61	1.27		4
6978.641	882.049	7.77	1.37		4
6980.639	882.302	8.06	1.43		4
6981.639	882.428	7.82	1.27		4
6982.646	882.556	7.35	1.08		4
7240.781	915.182	7.98	1.47	1.12	1
7267.720	918.587	7.34	1.07	0.72	1

TV CAM

J.D.	CYCLES	V	B-V	U-B	RF
6830.975	1290.105	11.40	1.03		4
6832.920	1290.472	11.94	1.26		4

TV CAM CONT.

J.D.	CYCLES	V	B-V	J-B	RF
6837.927	1291.418	11.83	1.30		4
6843.902	1292.546	11.96	1.34		4
6843.930	1292.551	11.99	1.31		4
6847.814	1293.285	11.69	1.18		4
6847.876	1293.297	11.71	1.17		4
6867.881	1297.075	11.39	1.00		4
6869.921	1297.460	11.85	1.30		4
6876.901	1298.778	12.11	1.29		4
6879.889	1299.343	11.74	1.23		4
6880.860	1299.526	11.95	1.31		4
6942.664	1311.198	11.59	1.10		4
6951.696	1312.904	11.41	1.00		4
6953.678	1313.278	11.67	1.17		4
6971.662	1316.675	12.19	1.35		4
6972.662	1316.864	11.75	1.13		4
6975.641	1317.426	11.85	1.30		4
6977.655	1317.807	12.01	1.24		4
6978.643	1317.993	11.25	0.92		4
6978.666	1317.998	11.33	0.93		4
6979.633	1318.180	11.53	1.13		4
6980.642	1318.371	11.81	1.24		4
6981.641	1318.560	12.02	1.34		4
6982.649	1318.750	12.11	1.35		4
6985.647	1319.938	11.23	0.92		4
6983.649	1318.939	11.23	0.91		4

AB CAM

J.D.	CYCLES	V	B-V	U-B	RF
6830.962	1180.339	12.15	1.35		4
6832.927	1180.678	11.93	1.18		4
6837.918	1181.541	12.32	1.47		4
6843.891	1182.573	12.27	1.42		4
6843.921	1182.578	12.27	1.41		4
6847.806	1183.240	11.95	1.30		4
6847.852	1183.257	11.97	1.31		4
6847.857	1183.258	11.95	1.29		4
6866.874	1186.544	12.32	1.43		4
6867.871	1186.716	11.77	1.10		4
6869.909	1187.068	11.78	1.24		4
6876.895	1188.276	11.96	1.33		4
6879.872	1188.790	11.31	0.96		4
6880.845	1188.958	11.61	1.13		4
6941.665	1199.467	12.29	1.44		4
6942.659	1199.639	12.20	1.36		4
6948.648	1200.674	12.06	1.31		4
6951.689	1201.199	11.90	1.29		4
6953.593	1201.528	12.34	1.45		4
6955.670	1201.714	11.78	1.13		4
6971.655	1204.649	12.21	1.2.		4
6972.653	1204.822	11.42	0.94		4
6977.650	1205.685	11.95	1.21		4
6978.638	1205.856	11.42	1.01		4
6978.662	1205.860	11.50	1.02		4
6979.629	1206.027	11.72	1.19		4
6980.635	1206.201	11.92	1.31		4
6981.636	1206.574	12.19	1.42		4

TABLE 1 (continued)

AB CAM CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6982.643	1206.548	12.31	1.42		4

TW CAP

J.D.	CYCLES	V	B-V	U-B	RF
5643.437	197.617	10.36	0.61		7
5655.541	198.041	11.04	0.79		7
5660.620	198.219	11.21	0.66		7
5661.454	198.248	11.05	0.60		7
5665.453	198.388	9.96	0.31		7
5668.506	198.495	10.28	0.55		-7
5669.494	198.530	10.36	0.55		7
5686.436	199.123	11.19	0.75		7
5687.466	199.159	11.23	0.70		7
5688.348	199.190	11.11	0.70		7
5689.355	199.225	11.08	0.61		7
5691.309	199.294	10.52	0.41		7
5692.354	199.330	10.09	0.32		7
7142.856	250.123	11.18	0.76	0.35	1
7143.854	250.158	11.21	0.74	0.32	1
7147.804	250.296	10.51	0.48	0.16	1
7178.765	251.380	10.06	0.35	0.13	1
7202.769	252.221	11.22	0.75	0.58	1
7226.672	253.058	10.92	0.74	0.27	1
7233.628	253.301	10.44	0.43	0.13	1
7239.616	253.511	10.40	0.56	0.27	1
7462.947	261.331	10.13	0.33	0.21	1
7521.836	263.394	10.14	0.38	0.24	1
7542.731	264.125	11.30	0.90	0.54	1

ℓ CAR HD 84810

J.D.	CYCLES	V	B-V	U-B	RF
3765.097	105.892	4.01	1.36		9
3775.986	106.198	3.49	1.16		9
3776.988	106.227	3.48	1.20		9
3778.035	106.256	3.53	1.23		9
3779.003	106.283	3.56	1.28		9
3784.010	106.424	3.73	1.43		9
3797.015	106.790	4.06	1.41		9
3852.859	108.360	3.67	1.40		9
3855.877	108.445	3.79	1.44		9
4087.153	114.950	3.79	1.23		9
4469.187	125.694	4.03	1.45		9
4472.166	125.778	4.03	1.46		9
4527.064	127.322	3.64	1.31		9
4544.273	127.806	4.10	1.41		7
4545.222	127.833	4.07	1.39		7
4546.229	127.861	4.02	1.32		7
4557.960	128.191	3.44	1.14		9
4808.116	135.227	3.31	1.20		9
4818.067	135.506	3.88	1.45		9
4820.043	135.562	3.95	1.48		9
4826.201	135.735	4.05	1.43		9
4830.028	135.843	4.04	1.40		9
4833.084	135.929	3.20	1.19		9
4845.004	136.264	3.56	1.29		9
4848.016	136.349	3.67	1.40		9

ℓ CAR HD 84810 CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4867.989	136.911	3.88	1.25		9
4872.010	137.024	3.38	1.01		9
4873.030	137.052	3.32	1.01		9
5163.412	145.219	3.51	1.25	1.02	5
5177.411	145.613	4.01	1.52	1.29	5
5198.413	146.204	3.50	1.23	1.00	5
5201.362	146.287	3.62	1.33	1.10	5
5208.405	146.485	3.87	1.48	1.25	5
5223.258	146.902	3.87	1.30	1.03	6
5236.315	147.270	3.56	1.31	1.10	5
5238.342	147.327	3.68	1.36	1.14	5
5245.326	147.523	3.94	1.49	1.28	5
5246.309	147.551	3.97	1.50	1.28	5
5267.272	148.140	3.43	1.14	0.90	5
5270.186	148.222	3.56	1.25	1.03	5
5292.192	148.841	4.05	1.38	1.15	5
5302.216	149.123	3.40	1.15		7
5302.224	149.123	3.39	1.13		7
5303.216	149.151	3.51	1.19		7
5616.305	157.957	3.55	1.11		7
5619.269	158.040	3.32	1.03		7
5620.275	158.068	3.33	1.02		7
5622.256	158.124	3.38	1.12		-7
5656.238	159.080	3.34	1.05		7
5657.191	159.107	3.32	1.06		7

U CAR

J.D.	CYCLES	V	B-V	U-B	RF
4512.370	116.430	6.55	1.47		7
4513.364	116.456	6.64	1.51		7
4517.407	116.560	6.81	1.54		7
4519.417	116.612	6.94	1.51		7
4520.350	116.636	6.96	1.52		7
4530.397	116.895	5.81	0.90		7
4532.394	116.947	5.93	1.00		7
4561.306	117.693	6.92	1.52		7
4568.200	117.871	5.82	0.85		-7
4573.296	118.002	6.06	1.10		7
4575.244	118.053	6.15	1.21		7
4578.244	118.130	6.25	1.31		7
4580.230	118.181	6.23	1.31		-7
4586.255	118.337	6.52	1.52		7
4588.206	118.387	6.55	1.51		7
4834.418	124.740	6.59	1.24		-7
4835.481	124.767	6.27	1.06		7
4913.257	126.774	6.15	1.05		7
4914.322	126.802	5.90	0.89		7
4917.351	126.880	5.85	0.85		7
5161.462	133.178	6.21	1.35	1.11	5
5169.446	133.384	6.51	1.47	1.22	5
5176.438	133.565	6.82	1.52	1.28	5
5177.436	133.591	6.86	1.52	1.29	5
5201.406	134.209	6.27	1.37	1.17	5
5208.468	134.391	6.51	1.48	1.23	5
5209.380	134.415	6.52	1.48	1.25	5
5236.341	135.111	6.17	1.25	0.98	5

TABLE 1 (continued)

U CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5238.400	135.164	6.19	1.32	1.08	5
5239.268	135.189	6.24	1.36	1.11	5
5244.440	135.319	6.43	1.46	1.19	5
5245.393	135.344	6.47	1.45	1.20	5
5246.357	135.369	6.50	1.47	1.21	5
5292.263	136.553	6.80	1.51	1.27	5

V CAR

J.D.	CYCLES	V	B-V	U-B	RF
4869.348	727.123	7.14	0.75		7
4890.284	730.249	7.28	0.80		7
4917.212	734.270	7.34	0.85		-7
5169.376	771.925	7.39	0.89	0.60	5
5201.322	776.695	7.63	1.07	0.81	5
5208.344	777.744	7.67	1.06	0.80	5
5256.279	784.902	7.83	1.01	0.79	5
5267.235	786.538	7.48	1.01	0.76	5
5611.298	837.916	7.50	0.85		7
5612.269	838.061	7.10	0.71		7
5619.261	839.105	7.10	0.73		7
5637.247	841.791	7.70	1.06		7
5638.225	841.937	7.30	0.90		7

Y CAR

J.D.	CYCLES	V	B-V	U-B	RF
4517.307	1241.100	8.18	0.63		7
4520.260	1241.912	8.42	0.71		7
4536.311	1246.322	8.38	0.74		7
4578.219	1257.835	7.96	0.51		7
4985.211	1259.756	8.20	0.59		7
4588.195	1260.576	8.21	0.63		7
4812.455	1322.190	8.30	0.69		7
4847.306	1331.755	7.75	0.42		7
4865.442	1336.743	7.76	0.42		7
4895.369	1344.970	8.22	0.64		7
4906.377	1347.995	8.09	0.64		7
4920.315	1351.824	8.10	0.66		7
5161.443	1418.072	8.29	0.76	0.51	5
5176.419	1422.187	8.32	0.78	0.54	5
5177.425	1422.463	8.22	0.68	0.44	5
5201.391	1429.048	8.16	0.71	0.45	5
5208.444	1430.986	7.96	0.61	0.37	5
5223.291	1435.065	8.20	0.71	0.23	6
5236.329	1438.647	7.54	0.40	0.21	5
5238.376	1439.209	8.40	0.79	0.54	5
5244.370	1440.856	7.85	0.57	0.32	5
5246.321	1441.392	8.42	0.77	0.51	5
5251.355	1442.775	7.78	0.46		7
5256.331	1444.142	8.34	0.76	0.50	5
5257.313	1444.412	8.21	0.68	0.43	5
5267.326	1447.163	8.18	0.67	0.44	5
5292.243	1454.009	8.15	0.69	0.44	5
5309.230	1458.676	8.05	0.54		7

SX CAR

J.D.	CYCLES	V	B-V	U-B	RF
4520.392	930.122	8.72	0.72		7
4534.323	932.988	8.98	0.79		7
4569.240	940.173	8.87	0.80		7
4865.449	1001.121	8.74	0.71		7
5165.448	1062.849	9.41	1.08	0.79	5
5167.444	1063.260	8.89	0.87	0.57	5
5198.480	1069.646	9.39	1.09	0.78	5
5201.403	1070.248	8.89	0.88	0.59	5
5208.459	1071.699	9.41	1.11	0.80	5
5224.430	1074.986	8.98	0.82		7
5238.392	1077.858	9.45	1.09	0.76	5
5242.395	1078.682	9.40	1.11	0.78	5
5244.404	1079.096	8.67	0.73	0.46	5
5257.322	1081.754	9.42	1.13	0.83	5
5292.253	1088.941	9.16	0.96	0.63	5
5535.507	1138.993	8.94	0.80		7
5555.485	1143.104	8.69	0.72		7
5574.365	1146.989	8.96	0.81		7
5628.309	1158.088	8.73	0.71		7

UW CAR

J.D.	CYCLES	V	B-V	U-B	RF
4517.299	845.023	9.04	0.78		7
4522.265	845.952	9.33	0.89		7
4565.289	854.000	9.17	0.84		7
4839.271	905.252	9.28	0.95		7
4865.402	910.140	9.15	0.86		7
4886.332	914.055	9.04	0.80		7
4924.260	921.150	9.13	0.94		-7
5164.449	966.081	9.01	0.82	0.53	5
5184.416	969.816	9.81	1.14	0.85	5
5189.471	970.762	9.84	1.18	0.89	5
5192.469	971.322	9.42	1.01	0.72	5
5195.441	971.878	9.73	1.09	0.84	5
5198.439	972.439	9.57	1.11	0.87	5
5239.336	980.090	9.05	0.82	0.52	5
5242.349	980.653	9.77	1.17	0.86	5
5244.349	981.027	8.99	0.83	0.51	5
5267.308	985.322	9.33	1.02	0.73	5
5274.216	986.614	9.07	1.15	0.67	6
5278.232	986.991	9.07	0.84	0.37	6

UX CAR

J.D.	CYCLES	V	B-V	U-B	RF
4520.298	1227.593	7.93	0.44		7
4531.330	1230.591	7.86	0.45		7
4535.339	1231.677	8.05	0.54		7
4564.260	1239.532	7.80	0.55		-7
4835.474	1313.186	8.65	0.80		7
4847.289	1316.395	8.50	0.71		7
4867.364	1321.847	8.31	0.70		7
4885.394	1326.743	8.18	0.62		7
4896.331	1329.713	8.17	0.59		7
5161.436	1401.709	8.07	0.60	0.37	5
5165.407	1402.787	8.18	0.69	0.43	5
5176.413	1405.776	8.14	0.66	0.43	5

TABLE 1 (continued)

UX CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5177.416	1406.048	8.48	0.84	0.30	5
5201.381	1412.557	7.85	0.47	0.26	5
5208.427	1414.470	8.09	0.55	0.32	5
5223.389	1418.533	7.87	0.44		7
5236.320	1422.045	8.49	0.83	0.62	5
5238.366	1422.601	7.91	0.52	0.29	5
5244.355	1424.227	8.65	0.85	0.59	5
5245.349	1424.497	7.90	0.50	0.28	5
5256.309	1427.474	8.07	0.55	0.30	5
5267.312	1430.462	8.09	0.57	0.34	5
5270.302	1431.274	8.65	0.85	0.59	5
5282.222	1434.511	8.02	0.49		-7
5285.227	1435.327	8.67	0.81		7
5292.234	1437.230	8.61	0.85	0.61	5

UY CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.312	814.130	8.72	0.65		7
4519.378	815.224	8.61	0.66		7
4529.356	817.024	9.17	0.88		7
4531.348	817.383	8.77	0.78		7
4536.302	818.277	8.67	0.70		7
4890.392	882.149	8.66	0.70		7
4896.339	883.222	8.64	0.66		7
4907.273	885.194	8.61	0.66		7
4929.299	889.167	8.62	0.63		7
5164.454	931.585	9.03	0.96	0.71	5
5184.419	935.187	8.56	0.68	0.42	5
5189.476	936.099	8.78	0.80	0.50	5
5192.478	936.640	9.08	0.97	0.69	5
5195.448	937.176	8.56	0.66	0.40	5
5198.445	937.717	9.13	1.00	0.73	5
5201.384	938.247	8.60	0.69	0.42	5
5208.432	939.518	8.94	0.91	0.68	5
5238.370	944.919	9.32	1.01	0.76	5
5244.359	945.999	9.20	0.93	0.63	5
5245.353	946.178	8.55	0.66	0.40	5
5256.314	948.155	8.59	0.67	0.42	5
5267.317	950.140	8.59	0.69	0.46	5

UZ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4519.393	868.336	9.23	0.74		7
4520.308	868.512	9.09	0.76		7
4535.348	871.401	9.03	0.70		7
4931.207	947.460	9.06	0.75		-7
4936.207	948.421	9.04	0.71		-7
5165.412	992.459	9.01	0.76	0.49	5
5167.415	992.344	9.41	1.02	0.80	5
5192.495	997.663	9.24	0.91	0.65	5
5195.464	998.233	9.58	0.96	0.68	5
5198.449	998.807	9.36	1.02	0.72	5
5208.448	1000.728	9.28	0.93	0.70	5
5238.383	1006.479	9.04	0.74	0.49	5
5242.366	1007.245	9.51	0.92	0.68	5

UZ CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5244.378	1007.631	9.20	0.83	0.64	5
5257.317	1010.117	9.59	1.06	0.79	5
5267.331	1012.041	9.58	1.03	0.80	5
5268.265	1012.221	9.56	0.98	0.73	5

VY CAR

J.D.	CYCLES	V	B-V	U-B	RF
3777.015	199.474	7.35	1.18		9
3779.025	199.580	7.53	1.29		9
3796.920	200.525	7.48	1.22		9
3851.900	203.429	7.31	1.18		9
4472.178	236.187	6.91	0.80		9
4512.358	238.309	7.05	0.98		7
4513.322	238.360	7.17	1.07		7
4527.076	239.086	7.68	1.08		9
4529.367	239.207	6.89	0.85		7
4530.372	239.260	6.96	0.90		7
4543.988	239.980	7.60	1.21		9
4557.981	240.719	7.83	1.30		9
4560.989	240.877	7.98	1.32		9
4565.298	241.105	7.69	1.14		7
4833.099	255.248	6.94	0.87		9
4834.136	255.303	7.07	0.98		9
4845.018	255.878	7.94	1.36		9
4848.023	256.036	7.69	1.15		9
4869.440	257.168	6.98	0.85		7
4873.018	257.356	7.10	1.02		9
4890.399	258.274	6.99	0.98		7
4908.237	259.216	6.92	0.87		-7
4920.971	259.889	7.92	1.32		9
4928.072	260.264	6.93	0.86		9
5161.455	272.590	7.57	1.41	1.18	5
5169.441	273.011	7.72	1.29	1.00	5
5177.428	273.433	7.27	1.22	0.99	5
5201.395	274.699	7.78	1.48	1.25	5
5208.456	275.072	7.71	1.28	0.99	5
5223.311	275.855	7.99	1.50	1.38	6
5236.333	276.544	7.49	1.38	1.13	5
5238.388	276.653	7.69	1.45	1.22	5
5239.364	276.704	7.81	1.49	1.28	5
5242.385	276.864	8.00	1.51	1.26	5
5244.394	276.970	7.84	1.39	1.10	5
5245.376	277.022	7.71	1.27	1.00	5
5267.336	278.181	6.90	0.86	0.59	5
5274.232	278.546	7.46	1.34	1.06	6

WW CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.334	963.045	9.44	0.72		7
4519.403	966.343	9.66	0.90		7
4532.387	969.119	9.38	0.73		7
4865.456	1040.337	9.69	0.91		7
4906.390	1049.089	9.43	0.77		7
4925.238	1033.119	9.33	0.72		-7
4930.236	1034.188	9.44	0.78		7

TABLE I (continued)

WW CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5165.458	1104.483	9.82	1.02	0.71	5
5167.449	1104.909	10.04	1.04	0.72	5
5198.484	1111.545	9.91	1.06	0.79	5
5223.447	1116.882	10.09	1.04		7
5224.455	1117.098	9.35	0.72		7
5242.399	1120.935	9.97	0.97	0.66	5
5244.408	1121.364	9.68	0.95	0.65	5
5256.349	1123.918	9.99	0.99	0.71	5
5267.345	1126.269	9.54	0.85	0.60	5
5270.331	1126.907	10.02	0.99	0.70	5
5275.235	1127.956	9.84	0.96	0.56	6
5276.196	1128.161	9.35	0.78	0.37	6
5303.236	1133.943	10.01	1.00		7

WZ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4529.378	196.865	9.19	1.19		-7
4530.381	196.909	9.12	1.28		7
4572.236	198.728	8.86	0.95		7
4574.243	198.815	8.95	1.12		7
4867.314	210.684	8.78	0.84		7
4867.375	211.556	9.46	1.13		7
4869.455	211.646	8.72	0.80		7
4885.415	212.340	9.84	1.53		7
4886.403	212.383	9.84	1.47		7
4895.405	212.774	8.94	1.06		7
4896.350	212.815	9.04	1.13		7
4907.284	213.291	9.78	1.57		7
4914.315	213.596	8.76	0.83		7
4917.332	213.727	8.89	1.01		7
4920.342	213.858	9.07	1.22		7
4934.194	214.460	9.88	1.44		7
5165.482	224.513	9.87	1.36	1.09	-5
5167.466	224.599	8.71	0.84	0.50	5
5186.485	225.426	9.99	1.49	1.05	-5
5242.421	227.857	9.05	1.19	0.92	5
5244.424	227.944	9.16	1.32	1.06	5
5267.350	228.941	9.18	1.33	1.01	5

XX CAR

J.D.	CYCLES	V	B-V	U-B	RF
4566.204	290.541	10.96	1.30		-7
4572.276	290.927	8.91	0.84		7
4573.288	290.991	9.01	0.95		7
4586.218	291.814	9.37	1.03		7
4886.413	310.915	8.81	0.79		7
4917.343	312.883	8.72	0.74		7
4918.302	312.944	8.91	0.88		7
4934.211	313.956	8.92	0.88		7
5165.494	328.672	9.76	1.26	1.01	5
5167.478	328.799	9.50	1.10	0.82	5
5188.423	330.131	9.14	1.11	0.84	5
5242.438	333.568	9.99	1.37	1.05	5
5274.248	335.592	9.86	1.36	1.14	6
5275.255	335.656	9.79	1.29	1.03	6

XY CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.385	362.953	9.12	1.18		7
4576.248	368.008	9.22	1.26		7
4578.261	368.170	9.50	1.44		7
4587.188	369.888	9.07	1.12		7
4834.430	388.770	8.84	0.92		-7
4835.490	388.855	8.95	1.03		7
4847.323	389.807	8.92	1.00		7
4885.424	392.871	9.02	1.08		7
4886.420	392.951	9.10	1.16		7
5166.442	415.470	9.62	1.36	1.06	5
5167.501	415.555	9.42	1.24	0.92	5
5194.543	417.729	9.07	1.05		7
5256.373	422.702	9.18	1.13	0.79	5
5292.268	425.588	9.37	1.23	0.96	5
5309.208	426.950	9.09	1.17	0.87	6
5557.453	447.718	9.12	1.06		7
5616.350	451.650	9.41	1.20		7
5628.318	452.612	9.41	1.22		7
5640.235	453.571	9.42	1.23		7
5641.226	453.650	9.34	1.20		7

XZ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4522.294	271.611	8.61	1.14		7
4587.197	275.509	8.93	1.36		7
5163.484	310.121	8.76	1.47	1.24	5
5166.456	310.300	9.07	1.50	1.20	5
5256.378	315.700	8.06	0.99	0.70	5
5257.329	315.757	8.10	1.04	0.77	5
5292.274	317.856	8.30	1.22	0.93	5
5304.209	318.573	8.79	1.31	1.00	6
5311.202	318.993	8.53	1.38	1.14	6

YZ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4561.281	251.129	8.41	0.98		7
4564.268	251.293	8.37	1.12		-7
4573.264	251.789	9.16	1.36		7
4575.228	251.897	9.12	1.32		7
4576.221	251.952	9.06	1.26		7
4578.205	252.061	8.85	1.16		7
4834.410	266.167	8.29	0.86		-7
4835.467	266.225	8.36	0.89		7
4890.384	269.248	8.38	0.99		7
4907.265	270.178	8.30	0.91		7
4943.244	272.159	8.34	0.90		7
5166.438	284.337	8.44	1.04	0.71	5
5185.507	285.497	8.69	1.22	0.92	5
5189.467	285.715	9.01	1.36	1.03	5
5192.465	285.880	9.02	1.31	1.02	5
5195.438	286.044	8.86	1.18	0.87	5
5198.435	286.209	8.27	0.91	0.60	5
5201.373	286.370	8.52	1.09	0.79	5
5208.421	286.758	9.03	1.35	1.09	5
5223.273	287.576	8.82	1.31	0.97	6
5238.359	288.407	8.56	1.12	0.79	5

TABLE 1 (continued)

YZ CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5244.3	288.736	8.99	1.35	1.04	5
5245.342	288.791	9.02	1.30	1.02	5
5267.300	290.000	8.90	1.21	0.89	5
5268.276	290.054	8.81	1.10	0.82	5
5270.295	290.165	8.25	0.91	0.61	5

AQ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4510.351	461.647	8.81	0.96		7
4519.369	462.570	8.73	0.89		7
4529.347	463.591	8.75	0.95		7
4567.212	467.466	8.60	0.84		-7
4930.207	504.620	8.82	0.98		-7
5164.433	528.594	8.74	0.97	0.72	5
5184.407	530.638	8.80	1.00	0.80	5
5185.502	530.750	8.97	1.11	0.89	5
5192.457	531.462	8.60	0.86	0.62	5
5195.430	531.766	9.02	1.11	0.92	5
5198.428	532.073	8.94	0.98	0.72	5
5201.370	532.374	8.56	0.79	0.54	5
5208.417	533.095	8.88	0.95	0.69	5
5238.354	536.160	8.84	0.91	0.65	5
5244.340	536.772	9.01	1.12	0.89	5
5246.317	536.975	9.10	1.09	0.86	5
5256.304	537.997	9.07	1.08	0.83	5
5257.305	538.099	8.88	0.95	0.67	5
5267.295	539.122	8.87	0.94	0.66	5
5308.228	543.311	8.78	0.84		7
5309.210	543.412	8.58	0.82		7
5310.215	543.515	8.78	0.93		7
5535.478	566.571	8.73	0.94		7
5573.484	570.461	8.67	0.85		7
5611.341	574.336	8.72	0.81		7
5620.299	575.253	8.76	0.84		7

CC CAR

J.D.	CYCLES	V	B-V	U-B	RF
4534.352	952.649	11.76	0.99		7
4535.371	952.863	11.90	1.14		7
4562.299	958.521	12.29	1.26		7
4567.267	959.564	12.45	1.16		-7
4925.252	1034.776	11.18	1.40		-7
4953.229	1040.653	11.35	0.18		-7
5224.480	1097.642	11.75	1.08		7
5253.276	1103.692	11.69	1.06		7
5281.300	1109.580	11.85	1.18		7
5282.234	1109.776	11.91	1.16		-7
5535.539	1162.994	12.02	1.22		7
5555.500	1167.188	12.20	1.33		7
5567.439	1169.696	11.69	1.09		7
5580.375	1172.414	12.25	1.36		7
5595.385	1175.568	12.01	1.19		7
5609.390	1178.510	12.19	1.26		7
5623.323	1181.437	12.23	1.30		7
5624.242	1181.631	11.77	1.07		7

CC CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5627.230	1182.258	12.20	1.32		7
5639.210	1184.775	11.84	1.18		7
5640.224	1184.988	12.02	1.23		7
5641.215	1185.196	12.14	1.35		7

CN CAR

J.D.	CYCLES	V	B-V	U-B	RF
4510.337	914.392	10.28	0.92		7
4535.289	919.450	10.42	0.96		7
4536.287	919.653	10.69	1.17		7
4564.251	925.322	10.41	1.09		-7
4885.375	990.424	10.41	0.95		7
4929.253	999.319	10.40	0.97		7
5165.397	1047.194	10.86	1.13	0.82	-5
5166.386	1047.394	10.25	0.94	0.65	5
5184.390	1051.044	10.95	1.24	0.36	-5
5185.489	1051.267	10.57	1.03	0.74	5
5192.440	1052.676	10.68	1.16	0.84	-5
5195.414	1053.279	10.52	1.01	0.72	5
5223.267	1058.926	10.89	1.27	0.92	6
5239.327	1062.182	10.88	1.19	0.91	-5
5242.339	1062.792	10.77	1.22	0.88	-5
5244.325	1063.195	10.88	1.12	0.97	-5
5245.329	1063.398	10.31	0.97	0.63	5
5267.282	1067.849	10.79	1.25	0.96	-5
5270.277	1068.456	10.37	1.01	0.73	5
5274.203	1069.252	10.55	1.06	0.62	6
5275.223	1069.459	10.37	1.01	0.59	6

CR CAR

J.D.	CYCLES	V	B-V	U-B	RF
4920.302	504.042	11.37	1.21		7
4921.307	504.145	11.50	1.24		-7
4930.224	505.058	11.33	1.26		-7
5164.465	529.054	11.33	1.19	0.92	-5
5167.398	529.354	11.69	1.45	1.06	-5
5184.430	531.099	11.41	1.26	1.02	-5
5185.517	531.210	11.52	1.36	0.88	-5
5192.483	531.924	11.46	1.20	0.79	-5
5195.452	532.228	11.54	1.44	1.18	-5
5223.287	535.080	11.31	1.25	0.72	6
5239.345	536.725	11.56	1.32	0.86	-5
5242.353	537.033	11.36	1.18	0.98	-5
5244.363	537.239	11.54	1.39	1.22	-5
5246.325	537.440	11.77	1.37	0.95	-5
5256.326	538.464	11.76	1.37	0.95	-5
5268.282	539.689	11.60	1.33	0.86	-5
5270.308	539.897	11.44	1.18	0.85	-5
5276.235	540.504	11.84	1.43	0.93	-6
5281.249	541.017	11.21	1.17		-7
5308.239	543.782	11.64	1.30		7
5309.219	543.883	11.46	1.22		7
5525.492	567.062	11.31	1.20		7
5573.500	570.956	11.44	1.30		7
5611.369	574.835	11.48	1.22		7

TABLE 1 (continued)

CR CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5624.231	576.153	11.44	1.28		7

CT CAR

J.D.	CYCLES	V	B-V	U-B	RF
4517.318	250.177	11.73	1.07		7
4533.338	251.064	12.39	1.58		7
4534.311	251.118	12.29	1.26		7
4535.362	251.176	11.67	1.15		7
4574.215	253.328	11.94	1.22		-7
5184.447	287.124	12.20	1.26	1.09	-5
5189.488	287.403	12.36	1.64		-5
5192.504	287.570	12.47	1.83		-5
5223.303	289.276	11.77	1.19	0.86	6
5242.371	290.332	11.86	1.17	0.97	-5
5244.386	290.443	12.08	1.51	1.02	-5
5245.367	290.497	12.32	1.54		-5
5246.335	290.551	12.36	1.94		-5
5274.222	292.096	12.44	1.40	1.03	-6
5275.230	292.151	11.93	1.20	0.80	-6
5275.284	292.154	11.87	1.38		-7
5276.239	292.207	11.71	1.12	0.60	6
5296.239	293.315	12.01	1.24		7
5567.408	308.333	11.88	1.34		7
5636.221	312.144	12.24	1.25		-7
5637.270	312.202	11.86	1.07		-7
5638.252	312.256	11.79	1.27		7

CY CAR

J.D.	CYCLES	V	B-V	U-B	RF
4522.287	1060.120	9.96	1.00		7
4890.410	1146.416	9.33	0.86		7
4914.333	1152.024	10.00	1.07		7
5166.425	1211.119	9.95	1.02	0.84	5
5167.489	1211.369	9.45	0.81	0.53	5
5242.442	1228.939	10.06	1.12	0.86	5
5245.365	1229.859	10.01	1.12	0.89	5
5256.360	1232.202	9.70	0.89	0.64	5
5270.359	1235.484	9.62	0.93	0.66	5
5276.251	1236.855	9.91	1.07	0.71	6
5282.249	1238.271	9.68	0.83		-7
5303.249	1243.194	9.85	0.95		7
5308.251	1244.366	9.57	0.81		7
5309.204	1244.590	9.69	0.97	0.69	6
5535.556	1297.651	9.79	0.99		7
5568.449	1305.362	9.47	0.79		7
5573.522	1306.551	9.71	0.93		7
5611.400	1315.431	9.61	0.85		7

DY CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.343	965.477	11.39	0.98		7
4546.276	972.522	11.09	0.80		7
4579.233	979.572	10.96	0.81		7
4953.213	1059.572	11.05	0.87		7
5165.467	1104.977	11.49	1.19	0.85	-5

DY CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5166.416	1105.180	11.61	1.29	1.17	-5
5167.454	1105.402	11.77	1.10	0.57	-5
5184.456	1109.039	11.52	1.20	0.92	-5
5185.525	1109.267	11.76	1.35	0.94	-5
5189.495	1110.117	11.71	1.31	1.31	-5
5223.318	1117.352	11.64	1.18	0.86	6
5224.468	1117.598	10.99	0.78		7
5242.404	1121.435	11.44	1.28	0.84	-5
5244.416	1121.865	11.30	1.09	0.82	-5
5246.351	1122.279	11.38	1.35	1.07	-5
5253.263	1123.758	11.18	0.96		7
5256.354	1124.419	11.43	1.15	0.78	-5
5270.336	1127.410	11.51	1.19	0.98	-5
5274.239	1128.245	11.65	1.22	0.87	6
5275.241	1128.459	11.33	0.98	0.63	6

ER CAR

J.D.	CYCLES	V	B-V	U-B	RF
4519.424	585.584	6.64	0.69		7
4533.364	587.390	7.02	0.91		7
4534.384	587.522	6.70	0.71		7
4834.438	626.401	6.99	0.88		-7
4835.498	626.538	6.66	0.73		7
4890.419	633.654	6.61	0.75		7
4943.268	640.502	6.81	0.78		7
5161.474	668.775	6.69	0.84	0.60	5
5169.456	669.809	6.70	0.85	0.60	5
5176.443	670.714	6.62	0.79	0.54	5
5177.441	670.844	6.69	0.85	0.61	5
5201.417	673.950	6.79	0.91	0.67	5
5208.472	674.864	6.70	0.86	0.61	5
5209.384	674.983	6.81	0.93	0.68	5
5216.371	675.888	6.72	0.84	0.57	6
5236.348	678.476	6.75	0.83	0.57	5
5238.403	678.743	6.65	0.82	0.57	5
5239.375	678.868	6.72	0.86	0.62	5
5253.303	680.673	6.60	0.73		7
5257.333	681.195	7.04	1.04	0.81	5
5292.281	685.724	6.64	0.80	0.55	5
5306.198	687.527	6.71	0.78	0.49	6
5310.213	688.047	6.89	0.97	0.69	6
5555.534	719.833	6.73	0.85		7
5608.340	726.675	6.61	0.74		7
5616.359	727.715	6.74	0.78		7
5623.333	728.618	6.57	0.68		7
5624.253	728.737	6.69	0.79		7

EY CAR

J.D.	CYCLES	V	B-V	U-B	RF
4517.330	1570.770	10.41	1.01		7
4520.317	1571.809	10.12	0.76		7
4532.368	1575.999	10.09	0.76		7
4566.213	1587.768	10.56	0.91		-7
4572.212	1589.854	10.24	0.81		7
4917.322	1709.856	10.14	0.81		7
4920.325	1710.900	10.22	0.80		7

TABLE 1 (continued)

EY CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5165.436	1796.130	10.19	0.90	0.63	5
5167.430	1796.523	10.09	0.79	0.48	5
5192.508	1805.543	10.46	0.92	0.64	5
5198.458	1807.612	10.69	0.81	0.53	5
5242.381	1822.885	10.01	0.73	0.44	5
5244.390	1823.584	10.53	0.91	0.57	5
5245.371	1823.925	10.13	0.76	0.50	5
5256.310	1827.729	10.44	0.86		7
5256.340	1827.739	10.31	0.87	0.60	5
5270.327	1832.603	10.63	0.89	0.55	5
5276.246	1834.661	10.53	0.94	0.44	6
5285.260	1837.795	10.27	0.82		7
5567.421	1935.908	10.02	0.75		7
5568.437	1936.262	10.42	0.89		7
5573.511	1938.026	10.12	0.81		7
5605.330	1950.133	10.26	0.84		7

FI CAR

J.D.	CYCLES	V	B-V	U-B	RF
4569.252	339.615	11.33	1.43		7
4570.286	339.692	11.51	1.53		7
5194.520	386.090	11.93	1.85		7
5223.400	388.236	11.75	1.75		7
5224.442	388.313	11.86	1.65		7
5281.287	392.538	11.37	1.42		7
5285.282	392.835	11.55	1.60		7
5535.520	411.434	11.70	1.58		7
5574.374	414.322	11.84	1.68		-7
5629.258	418.402	11.72	1.51		7
5630.291	418.478	11.66	1.52		7

FN CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.375	984.230	11.64	1.10		7
4546.290	991.408	11.22	0.95		7
4574.257	997.507	11.35	1.07		7
4839.303	1055.305	11.32	1.08		7
4867.383	1061.429	11.24	0.97		7
4917.365	1072.328	11.33	0.97		7
5184.466	1130.575	11.55	1.08	0.79	-5
5216.340	1137.526	11.33	1.06	0.74	6
5223.371	1139.059	11.81	1.23	0.90	6
5242.446	1143.219	11.67	1.17	0.84	-5
5270.364	1149.307	11.30	1.08	0.67	-5
5274.253	1150.155	11.77	1.21	0.83	6
5275.260	1150.374	11.17	0.98	0.63	6

FO CAR

J.D.	CYCLES	V	B-V	U-B	RF
4529.405	437.374	10.52	1.23		7
4575.253	441.802	11.05	1.44		7
4578.251	442.091	10.84	1.28		7
4580.237	442.283	10.48	1.10		-7
4903.256	477.337	10.46	1.12		7

FO CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5166.437	498.888	11.04	1.45	1.01	-5
5167.496	498.991	10.84	1.29	1.04	-5
5216.347	503.708	11.11	1.45	0.81	6
5253.290	507.275	10.54	1.13		7
5274.261	509.300	10.59	1.14	0.64	6
5275.269	509.397	10.54	1.15	0.84	6
5279.190	509.776	11.09	1.36	1.12	6
5304.203	512.191	10.63	1.19	0.86	6
5308.262	512.583	10.79	1.34		7

FR CAR

J.D.	CYCLES	V	B-V	U-B	RF
4520.378	421.783	9.62	1.04		7
4521.326	421.872	9.37	0.93		7
4533.377	422.996	9.37	1.02		7
4865.468	453.983	9.38	1.02		7
4918.312	458.913	9.38	0.98		7
4929.310	459.940	9.37	0.99		7
5166.463	482.068	9.46	1.10	0.81	5
5167.512	482.166	9.60	1.22	0.95	5
5184.475	483.748	9.69	1.08	0.79	5
5188.432	484.118	9.52	1.17	0.91	5
5243.376	489.244	9.71	1.27	1.05	5
5245.409	489.434	10.03	1.35	1.07	-5
5246.378	489.524	9.99	1.31	1.01	5
5250.415	489.901	9.33	0.94	0.66	5
5251.384	489.991	9.36	1.02		7
5256.391	490.459	10.04	1.38	1.09	-5
5257.349	490.548	9.95	1.28	1.02	5
5272.212	491.935	9.30	1.01	0.65	6
5273.217	492.029	9.39	1.07	0.77	6
5282.270	492.873	9.52	0.99		7
5315.219	495.948	9.42	1.02		7

FZ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4533.354	1267.004	11.90	1.15		7
4561.295	1274.813	12.85	1.21		7
4576.233	1278.988	11.91	1.19		7
4580.221	1280.103	11.88	1.29		-7
5184.461	1448.979	11.27	0.54	0.31	-5
5188.418	1450.085	11.79	1.20	0.79	-5
5189.503	1450.388	12.03	1.18	0.91	-5
5223.364	1459.852	11.80	1.09	0.73	6
5242.416	1465.177	11.95	1.20	0.92	-5
5244.421	1465.737	11.73	1.14	0.70	-5
5245.389	1466.007	11.76	1.12	0.75	-5
5270.352	1472.984	11.94	1.19	0.72	-5
5275.246	1474.352	12.11	1.23	0.92	-6

GH CAR

J.D.	CYCLES	V	B-V	U-B	RF
4520.357	789.468	9.07	0.90		7
4521.277	789.628	9.13	0.93		7
4586.219	801.320	9.07	0.92		7

TABLE 1 (continued)

GH CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4834.445	844.322	9.02	0.86		-7
4835.505	844.507	9.05	0.87		7
4921.346	859.499	9.06	0.91		7
5163.493	901.789	9.27	0.96	0.71	5
5177.448	904.227	9.15	1.01	0.73	5
5201.421	908.414	9.01	0.87	0.56	5
5208.480	909.646	9.10	0.95	0.63	5
5236.357	914.515	9.01	0.98	0.63	5
5238.407	914.873	9.24	1.04	0.72	5
5243.359	915.738	9.15	0.99	0.69	5
5245.405	916.095	9.28	1.01	0.71	5
5256.383	918.012	9.30	1.03	0.72	5
5257.340	918.180	9.17	0.98	0.66	5
5292.286	924.283	9.04	0.95	0.62	5
5555.545	970.260	9.13	0.93		7
5567.498	972.348	9.04	0.89		7
5568.460	972.516	9.05	0.92		7
5580.388	974.599	9.11	0.95		7
5608.351	979.483	9.06	0.90		7
5609.405	979.667	9.18	0.96		7
5611.412	980.017	9.37	1.03		7

GI CAR

J.D.	CYCLES	V	B-V	U-B	RF
4512.382	1018.456	8.16	0.81		7
4520.368	1020.259	8.38	0.73		7
4521.286	1020.465	8.18	0.63		7
4530.405	1022.524	8.14	0.66		7
4835.513	1091.388	8.24	0.87		7
4867.395	1098.584	8.21	0.64		7
5169.479	1166.763	8.30	0.76	0.51	5
5176.459	1168.349	8.25	0.73	0.48	5
5177.461	1168.566	8.12	0.67	0.43	5
5201.431	1173.976	8.42	0.82	0.56	5
5208.491	1175.570	8.11	0.68	0.43	5
5236.370	1181.862	8.31	0.81	0.55	5
5238.420	1182.325	8.28	0.74	0.49	5
5243.372	1183.443	8.14	0.68	0.42	5
5250.410	1185.031	8.41	0.82	0.55	5
5253.313	1185.686	8.27	0.71		7
5292.299	1194.485	8.11	0.67	0.41	5
5304.217	1197.175	8.42	0.82	0.49	6
5310.226	1198.532	8.24	0.67		7
5328.216	1202.592	8.23	0.68		7

GX CAR

J.D.	CYCLES	V	B-V	U-B	RF
4522.252	628.400	9.33	1.01		7
4523.270	628.541	8.98	0.86		7
4531.328	629.661	9.12	0.99		7
4545.232	631.593	9.06	0.90		7
4839.261	672.450	9.12	0.93		7
5163.419	717.494	8.96	0.86	0.57	5
5164.408	717.632	9.09	0.97	0.65	5
5166.381	717.906	9.30	1.18	0.87	5

GX CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5184.379	720.407	9.33	1.02	0.72	5
5185.480	720.560	8.97	0.90	0.59	5
5192.434	721.526	8.96	0.87	0.59	5
5239.319	728.041	9.52	1.24	0.96	5
5242.335	728.460	9.08	0.92	0.64	5
5257.296	730.539	8.95	0.87	0.57	5
5267.277	731.926	9.39	1.16	0.88	5
5270.271	732.342	9.55	1.11	0.85	5
5276.220	733.169	9.71	1.28	0.97	6

GZ CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.286	1085.225	10.19	0.97		7
4517.288	1086.187	10.10	0.91		7
4521.249	1087.139	10.22	0.98		7
4529.339	1089.085	10.10	0.94		7
4561.214	1096.749	10.20	1.01		7
4812.445	1157.158	10.19	0.97		7
4869.403	1170.853	10.18	0.94		7
4886.321	1174.921	10.11	0.90		7
4895.331	1177.088	9.98	0.93		-7
4917.294	1182.369	10.34	1.10		7
4919.306	1182.853	10.21	0.95		7
4924.250	1184.041	10.06	0.89		-7
4931.196	1185.711	10.37	1.04		-7
4943.210	1188.600	10.34	1.04		-7
5164.417	1241.790	10.45	1.10	0.79	5
5166.411	1242.269	10.26	0.97	0.72	5
5184.396	1246.594	10.41	1.10	0.81	5
5185.494	1246.858	10.16	0.93	0.63	5
5192.446	1248.529	10.28	1.08	0.79	5
5195.419	1249.244	10.17	1.03	0.68	5
5198.418	1249.965	10.09	1.00	0.67	5
5239.331	1259.803	10.20	1.01	0.71	5
5242.345	1260.528	10.33	1.02	0.76	5
5244.329	1261.005	9.99	0.91	0.61	5
5245.338	1261.247	10.19	1.01	0.80	5
5257.300	1264.124	10.12	1.00	0.73	5
5270.286	1267.246	10.16	0.99	0.68	5
5274.208	1268.189	10.05	0.96	0.53	6
5276.225	1268.674	10.37	1.06	0.64	6

HK CAR

J.D.	CYCLES	V	B-V	U-B	RF
4529.412	676.443	10.05	0.95		7
4535.374	677.333	9.98	0.92		7
4568.211	682.237	10.10	0.97		-7
4917.373	734.383	10.00	0.99		7
4924.314	735.419	10.04	0.98		-7
5163.478	771.137	10.29	1.16	0.82	5
5166.451	771.581	10.06	1.08	0.74	5
5216.364	779.035	10.44	1.13	0.84	6
5245.401	783.372	9.96	0.99	0.64	5

TABLE 1 (continued)

HK CAR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5272.205	787.375	10.00	0.95	0.59	6
5306.204	792.453	10.04	0.98	0.66	6
5310.209	793.051	10.44	1.16	0.84	6

IT CAR

J.D.	CYCLES	V	B-V	U-B	RF
4546.300	603.310	8.19	1.01		7
4847.333	643.258	8.20	1.06		7
4907.294	651.215	8.17	1.04		7
4908.246	651.341	8.26	1.10		7
4914.344	652.150	8.12	0.99		7
4916.278	652.407	8.33	1.09		7
4924.324	653.475	8.37	1.12		7
4930.292	654.267	8.18	1.07		7
5161.480	684.946	7.97	0.94	0.69	5
5169.461	686.005	7.98	0.97	0.72	5
5176.452	686.933	7.93	0.94	0.71	5
5177.452	687.066	7.99	0.99	0.77	5
5201.427	690.247	8.14	1.05	0.82	5
5208.484	691.184	8.04	1.05	0.77	5
5236.361	694.883	7.99	0.93	0.67	5
5238.415	695.156	8.07	1.02	0.78	5
5239.379	695.284	8.16	1.07	0.82	5
5243.363	695.812	7.93	0.91	0.65	5
5246.370	696.211	8.11	1.05	0.79	5
5251.372	696.87[illegible]	7.97	0.90		7
5282.260	700.974	8.16	0.99		7
5292.291	702.305	8.18	1.08	0.84	5
5309.213	704.551	8.21	1.06	0.77	6
5328.208	707.072	8.14	0.98		7
5567.506	738.827	7.97	0.90		7
5573.532	739.627	8.17	0.98		7
5574.383	739.740	7.99	0.93		-7
5611.421	744.655	8.16	0.98		7
5620.309	745.834	7.97	0.88		7
5621.394	745.978	8.05	0.96		7

RS CAS

J.D.	CYCLES	V	B-V	U-B	RF
6741.871	1070.900	9.55	1.28		2
6742.841	1071.054	9.73	1.42		2
6745.917	1071.543	10.28	1.70		2
6746.866	1071.693	10.33	1.63		2
6748.934	1072.022	9.66	1.38		2
6749.940	1072.182	9.86	1.50		2
6759.911	1073.765	10.09	1.51		2
6760.912	1073.924	9.59	1.27		2
6774.920	1076.149	9.81	1.50		3
6783.960	1077.585	10.31	1.67		3
6784.857	1077.728	10.22	1.56		3
6786.907	1078.053	9.73	1.38	1.07	3
6787.894	1078.210	9.92	1.51	1.11	3
6789.986	1078.543	10.25	1.60		3
6791.892	1078.845	9.72	1.32	0.94	3
6792.825	1078.994	9.60	1.34	0.92	3

RS CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6793.868	1079.159	9.85	1.49	1.10	3
6796.845	1079.632	10.34	1.68		2
6806.881	1081.226	9.93	1.52	1.11	2
6807.800	1081.372	10.03	1.61	1.13	3
6807.884	1081.386	10.07	1.57	1.21	2
6808.810	1081.533	10.22	1.64	1.25	3
6808.827	1081.535	10.27	1.65	1.30	2
6809.793	1081.689	10.29	1.59	1.29	3
6810.848	1081.856	9.65	1.32	0.88	3
6811.809	1082.009	9.61	1.37	0.89	3
6812.707	1082.161	9.88	1.49	1.08	2
6815.893	1082.658	10.32	1.67	1.33	2
6816.790	1082.800	9.90	1.43	0.99	3
6817.794	1082.960	9.57	1.33	0.98	3
6825.677	1084.212	9.95	1.53		4
6825.858	1084.241	9.94	1.53		4
6826.862	1084.400	10.12	1.62		4
6827.656	1084.526	10.27	1.66		4
6827.868	1084.560	10.28	1.69		4
6829.807	1084.873	9.61	1.29		4
6830.820	1085.029	9.70	1.37		4
6832.815	1085.346	10.04	1.56		4
6833.667	1085.481	10.22	1.66		4
6837.650	1086.114	9.82	1.45		4
6837.871	1086.149	9.87	1.50		4
6843.709	1087.076	9.73	1.41		4
6845.754	1087.401	10.10	1.57	1.25	3
6846.715	1087.554	10.26	1.67		4
6846.763	1087.561	10.24	1.67	1.23	-3
6847.690	1087.708	10.26	1.61		4
6848.676	1087.865	9.61	1.30		4
6848.784	1087.882	9.57	1.27	0.92	3
6849.763	1088.038	9.66	1.41	0.99	3
6852.605	1088.489	10.21	1.69	1.30	2
6853.696	1088.662	10.33	1.62	1.26	2
6857.655	1089.291	9.98	1.54		2
6866.638	1090.718	10.24	1.60		4
6867.636	1090.877	9.57	1.28		4
6869.625	1091.193	9.88	1.50		4
6876.654	1092.309	10.00	1.52		4
6879.626	1092.781	9.97	1.45		4
6880.628	1092.940	9.55	1.28		4
6941.570	1102.621	10.30	1.69		4
6942.591	1102.783	9.98	1.48		4
6943.580	1102.940	9.56	1.30		4
6954.572	1104.686	10.30	1.62		4
6955.560	1104.843	9.73	1.36		5
6979.581	1108.658	10.30	1.65		4
6980.575	1108.816	9.83	1.41		4
7184.835	1141.262	9.90	1.55	1.18	1
7203.844	1144.281	9.98	1.55	1.15	1
7206.756	1144.744	10.16	1.56	1.13	1
7217.716	1146.485	10.21	1.70	1.28	1
7220.727	1146.963	9.57	1.30	0.96	1
7221.735	1147.123	9.81	1.46	1.04	1
7240.715	1150.138	9.80	1.46	1.13	1
7241.756	1150.303	9.99	1.35	1.17	1

TABLE 1 (continued)

RS CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7251.689	1151.881	9.57	1.28	0.88	1
7253.656	1152.193	9.90	1.52	1.10	1
7267.626	1154.412	10.10	1.61	1.25	1
7273.606	1155.362	10.02	1.57	1.25	1

RW CAS

J.D.	CYCLES	V	B-V	U-B	RF
3151.927	212.997	8.93	1.27		8
3152.913	213.064	9.06	1.36		8
3153.962	213.134	9.23	1.43		8
3154.920	213.199	9.36	1.45		8
3158.882	213.467	9.80	1.58		8
3159.882	213.534	9.70	1.50		8
3173.895	214.819	8.85	0.97		8
3179.792	214.680	8.88	1.09		8
3180.795	214.948	8.92	1.21		8
3206.722	216.700	9.41	1.29		8
3233.656	218.520	9.71	1.54		8
3238.660	218.858	8.80	1.07		8
6825.712	461.259	9.59	1.54		4
6825.871	461.270	9.54	1.57		4
6826.881	461.338	9.68	1.59		4
6827.734	461.397	9.76	1.59		4
6827.922	461.408	9.75	1.59		4
6828.850	461.471	9.73	1.50		4
6829.920	461.544	9.52	1.37		4
6830.916	461.611	9.44	1.27		4
6832.875	461.743	8.63	0.88		4
6837.760	462.073	9.21	1.39		4
6843.826	462.483	9.66	1.49		4
6847.756	462.749	8.63	0.90		4
6942.639	469.161	9.36	1.46		4
6949.691	469.637	9.43	1.26		4
6951.650	469.770	8.74	0.96		4
6953.643	469.904	8.92	1.15		4
6954.639	469.972	9.02	1.26		4
6975.606	471.388	9.73	1.56		4
6979.608	471.659	9.33	1.22		4
6980.603	471.726	8.59	0.85		4
6981.596	471.793	8.76	0.98		4
6982.609	471.862	8.85	1.08		4
7155.856	483.569	9.47	1.29	1.37	1
7162.917	484.046	9.15	1.40	1.34	1
7267.681	491.126	9.27	1.45	1.27	1
7522.921	508.374	9.76	1.56	1.45	1
7592.767	513.094	9.18	1.42	1.22	1
7593.798	513.164	9.34	1.47	1.29	1
7595.837	513.302	9.61	1.58	1.42	1
7597.791	513.434	9.68	1.53	1.41	1
7600.745	513.633	9.42	1.27	1.01	1
7601.655	513.695	8.81	0.94	0.70	1
7619.692	514.914	8.92	1.19	0.95	1
7621.740	515.052	9.12	1.38	1.20	1
7623.665	515.182	9.37	1.50	1.34	1
7625.697	515.319	9.84	1.56	1.54	1
7626.717	515.388	9.70	1.57	1.38	1

RW CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7635.657	515.993	9.08	1.33	1.08	1
7645.759	516.675	9.08	1.09	0.79	1
7646.655	516.736	8.57	0.92	0.65	1
7647.656	516.803	8.73	0.99	0.76	1
7649.681	516.940	9.03	1.22	0.95	1
7654.666	517.277	9.54	1.60	1.39	1
7656.633	517.410	9.75	1.54	1.40	1
7658.675	517.548	9.34	1.36	0.88	1
7660.655	517.682	8.96	1.03	0.73	1

RY CAS

J.D.	CYCLES	V	B-V	U-B	RF
6741.885	555.569	10.10	1.51		2
6742.887	555.652	10.25	1.61		2
6745.931	555.902	10.31	1.51		2
6746.871	555.980	10.18	1.41		2
6748.937	556.150	9.67	1.21		2
6749.946	556.233	9.39	1.13		2
6757.859	556.885	10.35	1.54		2
6759.917	557.055	9.97	1.34		2
6760.919	557.138	9.77	1.23		2
6774.958	558.294	9.59	1.25	0.93	3
6784.906	559.114	9.81	1.26	0.95	3
6787.934	559.364	9.75	1.32	1.02	3
6791.921	559.692	10.26	1.61		3
6792.879	559.771	10.33	1.57		3
6793.892	559.855	10.33	1.56	1.20	3
6796.834	560.097	9.69	1.29		2
6806.819	560.920	10.26	1.49	1.20	-3
6806.873	560.924	10.25	1.51	1.13	2
6807.809	561.002	10.06	1.41	0.96	3
6808.817	561.085	9.91	1.36	0.97	2
6808.863	561.088	9.92	1.33	0.93	3
6809.629	561.168	9.57	1.19	0.88	3
6810.779	561.246	9.44	1.15	0.90	2
6810.865	561.253	9.47	1.17	0.84	3
6811.820	561.332	9.74	1.31	0.99	2
6811.873	561.336	9.71	1.31	0.98	3
6812.659	561.402	9.84	1.37	1.05	2
6812.867	561.418	9.86	1.36	1.03	3
6813.730	561.489	9.93	1.46	1.09	2
6813.861	561.500	9.97	1.45	1.27	3
6814.871	561.579	10.11	1.54	1.13	3
6816.761	561.739	10.36	1.59	1.40	2
6817.758	561.821	10.38	1.58	1.29	2
6827.668	562.638	10.21	1.62		4
6827.881	562.656	10.23	1.60		4
6830.857	562.901	10.31	1.52		4
6832.843	563.065	9.95	1.32		4
6833.795	563.143	9.70	1.24		4
6836.735	563.385	9.77	1.36	1.13	2
6837.677	563.463	9.[illegible]	1.43		4
6844.796	564.049	9.97	1.36	0.94	3
6845.797	564.132	9.77	1.26	0.94	3
6846.670	564.204	9.43	1.11	0.69	2
6846.754	564.214	9.41	1.11	0.88	3

TABLE 1 (continued)

RY CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6846.892	564.222	9.34	1.11	0.85	2
6847.709	564.290	9.59	1.19		4
6848.697	564.371	9.76	1.35		4
6853.702	564.783	10.36	1.61	1.33	2
6858.587	565.186	9.50	1.15		2
6866.706	565.855	10.35	1.55		4
6867.691	565.936	10.20	1.49		4
6869.682	566.100	9.85	1.30		4
6876.748	566.682	10.24	1.39		4
6879.681	566.924	10.22	1.49		4
6880.675	567.006	10.03	1.38		4
6943.593	572.191	9.49	1.11		4
6948.588	572.603	10.11	1.56		4
6955.609	573.181	9.52	1.15		4
6975.591	574.828	10.36	1.59		4
6980.581	575.239	9.46	1.13		4
6982.582	575.404	9.78	1.34		4

SU CAS

J.D.	CYCLES	V	B-V	U-B	RF
6825.775	3501.620	6.01	0.74		4
6825.882	3501.675	6.00	0.77		4
6826.885	3502.190	5.87	0.69		4
6827.758	3502.638	6.03	0.75		4
6827.975	3502.749	6.04	0.77		4
6828.861	3503.203	5.87	0.68		4
6829.930	3503.752	6.09	0.80		4
6830.956	3504.278	5.75	0.62		4
6837.819	3507.799	6.10	0.81		4
6837.952	3507.867	6.15	0.81		4
6843.887	3510.912	6.12	0.79		4
6847.801	3512.920	6.14	0.80		4
6847.845	3512.942	6.15	0.80		4
7215.774	3701.690	6.01	0.77	0.45	1
7222.750	3705.268	5.79	0.65	0.41	1
7240.772	3714.513	5.87	0.70	0.40	1
7267.713	3728.334	5.77	0.65	0.40	1
7592.780	3895.094	6.04	0.75	0.51	1
7597.784	3897.661	5.99	0.74	0.51	1
7600.756	3899.185	5.91	0.69	0.48	1
7601.660	3899.649	6.04	0.74	0.52	1
7619.815	3908.962	6.16	0.81	0.54	1
7621.777	3909.969	6.17	0.81	0.54	1
7623.696	3910.954	6.13	0.81	0.54	1
7625.742	3912.003	6.13	0.78	0.58	1
7626.745	3912.517	5.85	0.70	0.50	1
7635.683	3917.103	6.06	0.77	0.50	1
7645.789	3922.287	5.79	0.65	0.45	1
7646.692	3922.751	6.03	0.83	0.53	1
7647.676	3923.255	5.82	0.82	0.43	1
7649.761	3924.325	5.79	0.65	0.42	1
7654.687	3926.852	6.13	0.80	0.54	1
7655.716	3927.380	5.80	0.66	0.50	1
7656.652	3927.860	6.16	0.78	0.53	1
7663.256	3931.453	5.82	0.64	0.50	1

SW CAS

J.D.	CYCLES	V	B-V	U-B	RF
6741.816	1239.090	10.03	1.31		2
6742.877	1239.285	9.61	1.05		2
6745.822	1239.827	9.88	1.20		2
6746.860	1240.017	9.97	1.29		2
6748.924	1240.397	9.35	0.96		2
6749.931	1240.582	9.59	0.99		2
6757.853	1242.038	10.04	1.09		2
6758.819	1242.215	9.90	1.17		2
6759.903	1242.415	9.39	0.98		2
6768.936	1244.075	9.97	1.24		3
6772.963	1244.815	9.77	1.21	0.79	3
6773.948	1244.996	9.92	1.30	0.88	-3
6774.896	1245.170	9.92	1.21	0.77	3
6781.956	1246.468	9.30	0.98	0.73	2
6785.982	1247.208	9.78	1.21	0.69	3
6786.898	1247.376	9.34	0.94	0.64	3
6787.888	1247.558	9.60	1.06	0.67	3
6791.854	1248.287	9.56	1.03	0.68	3
6792.817	1248.464	9.38	1.00	0.70	3
6793.819	1248.648	9.58	1.17	0.73	3
6805.818	1250.853	9.89	1.11	0.90	3
6806.801	1251.034	9.95	1.24	0.88	3
6806.853	1251.044	10.00	1.30	0.98	2
6808.801	1251.402	9.33	0.95	0.67	3
6810.797	1251.768	9.70	1.23	0.83	3
6811.800	1251.953	9.89	1.23	0.95	3
6812.798	1252.136	9.97	1.23	0.96	3
6813.790	1252.319	9.44	0.99	0.68	3
6814.805	1252.505	9.45	1.04	0.72	3
6815.793	1252.687	9.68	1.15	0.85	3
6817.778	1253.052	9.96	1.23	0.93	3
6819.775	1253.419	9.35	0.97	0.67	3
6827.650	1254.866	9.84	1.25		4
6827.803	1254.905	9.89	1.25		4
6828.838	1255.084	10.04	1.32		4
6829.815	1255.264	9.67	1.07		4
6830.805	1255.446	9.39	0.99		4
6831.796	1255.628	9.64	1.11		4
6832.746	1255.803	9.80	1.25		4
6833.643	1255.967	9.95	1.30		4
6837.625	1256.699	9.70	1.17		4
6837.860	1256.742	9.75	1.24		4
6843.691	1257.814	9.79	1.22		4
6844.708	1258.016	9.96	1.23	0.86	3
6845.712	1258.186	9.86	1.22	0.92	2
6845.745	1258.192	9.89	1.17	0.83	3
6846.675	1258.363	9.38	0.94		4
6846.697	1258.367	9.38	0.93		4
6846.726	1258.372	9.33	0.94	0.76	2
6846.754	1258.377	9.34	0.95	0.61	3
6847.674	1258.546	9.51	1.08		4
6847.777	1258.565	9.52	1.08	0.75	3
6848.780	1258.727	9.72	1.20		4
6849.763	1258.930	9.87	1.31	0.98	2
6852.718	1259.473	9.40	1.00	0.73	2
6853.640	1259.643	9.67	1.12	0.83	2
6856.648	1260.196	9.89	1.20		2

TABLE 1 (continued)

SW CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6857.649	1260.350	9.37	0.96		2
6858.727	1260.578	9.54	1.08		2
6866.611	1262.027	9.98	1.29		4
6867.615	1262.211	9.85	1.16		4
6869.602	1262.576	9.55	1.10		4
6876.636	1263.869	9.84	1.23		4
6879.600	1264.414	9.35	0.95		4
6880.611	1264.600	9.55	1.11		4
6943.562	1276.170	9.98	1.24		4
6953.571	1278.009	9.96	1.29		4
6954.562	1278.191	9.91	1.20		4
6955.555	1278.374	9.36	0.96		4
6971.561	1281.319	9.45	1.00		4

SY CAS

J.D.	CYCLES	V	B-V	U-B	RF
6766.935	1662.214	10.15	1.19	0.74	3
6768.918	1662.606	9.58	0.93		3
6772.982	1663.694	9.60	0.88	0.74	3
6784.975	1666.640	9.51	0.83	0.57	3
6787.976	1667.377	10.16	1.13	0.73	3
6791.983	1668.362	10.21	1.08	0.75	3
6792.933	1668.595	9.46	0.79	0.60	3
6793.950	1668.845	9.81	1.03	0.70	3
6805.927	1671.787	9.73	0.96	0.64	3
6806.892	1672.024	10.02	1.12	0.78	2
6806.907	1672.027	10.03	1.12	[illegible]	3
6807.892	1672.269	10.22	1.17	0.86	2
6808.809	1672.495	9.70	0.88	0.62	2
6808.889	1672.514	9.57	0.87	0.57	3
6809.741	1672.724	9.70	0.93	0.62	2
6810.810	1672.936	10.00	1.10	0.79	2
6811.829	1673.236	10.25	1.15	0.75	2
6812.885	1673.496	9.67	0.89	0.62	3
6812.949	1673.512	9.57	0.86	0.57	2
6813.695	1673.695	9.62	0.88	0.65	2
6813.877	1673.740	9.67	0.93	0.67	3
6814.890	1673.988	9.97	1.13	0.73	3
6815.825	1674.218	10.19	1.19	0.81	3
6816.368	1674.474	9.82	0.92	0.65	3
6817.785	1674.699	9.60	0.90	0.60	3
6818.748	1674.936	9.92	1.07	0.75	3
6827.689	1677.132	10.18	1.11		4
6827.892	1677.182	10.18	1.15		4
6830.878	1677.916	9.93	1.04		4
6833.799	1678.633	9.49	0.83	0.64	2
6837.698	1679.591	9.45	0.77		4
6837.888	1679.637	9.51	0.83		4
6844.842	1681.346	10.22	1.14	0.84	3
6845.749	1681.568	9.39	0.80	0.61	2
6845.812	1681.584	9.42	0.81	0.60	3
6846.808	1681.829	9.79	1.01	0.73	3
6846.844	1681.837	9.77	1.01	0.76	2
6848.708	1682.295	10.21	1.15		4
6848.814	1682.321	10.22	1.16	0.73	3
6849.794	1682.562	9.44	0.81	0.61	3

SY CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6852.745	1683.287	10.20	1.14	0.80	2
6853.739	1683.531	9.52	0.80	0.62	2
6856.661	1684.249	10.21	1.16		2
6857.678	1684.499	9.66	0.88		2
6858.739	1684.759	9.68	0.93		2
6866.746	1686.726	9.67	0.90		4
6876.786	1689.192	10.19	1.15		4
6879.720	1689.913	9.89	1.06		4
6880.710	1690.156	10.15	1.13		4
6942.616	1705.363	10.23	1.12		4
6948.608	1706.834	9.81	1.00		4
6951.625	1707.578	9.43	0.79		4
6953.619	1708.065	10.09	1.11		4
6954.624	1708.312	10.24	1.13		4
6955.633	1708.560	9.48	0.79		4
6955.583	1708.548	9.49	0.80		4
6971.614	1712.486	9.77	0.88		4
6975.595	1713.463	9.91	0.94		4
6978.590	1714.199	10.18	1.16		4
6979.598	1714.447	9.98	0.98		4
6980.593	1714.691	9.58	0.86		4
6982.598	1715.184	10.17	1.13		4
6983.591	1715.428	10.07	1.03		4
7522.900	1847.902	9.91	1.03	0.72	1

SZ CAS

J.D.	CYCLES	V	B-V	U-B	RF
6805.996	499.706	10.01	1.57	1.13	-3
6806.989	499.779	9.98	1.52	1.25	3
6807.992	499.853	9.92	1.51	1.12	3
6808.992	499.926	9.84	1.44	1.03	3
6809.984	499.999	9.67	1.43	0.94	3
6810.991	500.073	9.61	1.37	0.93	3
6811.971	500.145	9.62	1.40	0.97	3
6812.943	500.216	9.70	1.44	1.06	3
6813.938	500.289	9.74	1.51	1.05	3
6814.975	500.365	9.83	1.51	1.16	3
6815.946	500.437	9.90	1.56	1.14	3
6816.825	500.501	9.97	1.63	1.17	2
6816.933	500.509	9.94	1.62	1.15	3
6817.851	500.576	10.01	1.60	1.19	2
6817.897	500.580	9.98	1.59	1.24	3
6818.831	500.648	10.02	1.60	1.16	2
6818.882	500.652	10.02	1.62	1.23	3
6819.806	500.720	10.02	1.57	1.12	2
6820.814	500.794	9.98	1.55	1.10	2
6825.768	501.158	9.69	1.44		4
6825.879	501.166	9.63	1.45		4
6827.780	501.305	9.81	1.53		4
6827.957	501.318	9.80	1.53		4
6830.945	501.538	9.99	1.61		4
6832.892	501.681	10.03	1.56		4
6833.872	501.753	9.96	1.56	1.14	2
6834.916	501.829	9.88	1.52	1.10	2
6836.883	501.974	9.70	1.40	1.12	2
6837.792	[illegible],041	9.65	1.40		4

TABLE 1 (continued)

SZ CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6843.861	502.466	9.91	1.61		4
6845.886	502.635	10.02	1.59	[illegible].11	-3
6847.784	502.774	9.97	1.56		4
6847.911	502.784	9.97	1.51		4
6849.784	502.921	9.81	1.46	1.08	2
6849.907	502.930	9.81	1.44	0.95	3
6852.774	503.141	9.61	1.42	1.00	2
6853.795	503.216	9.68	1.47	1.10	2
6856.731	503.431	9.89	1.57		2
6857.697	503.502	9.95	1.60		2
6858.796	503.583	9.97	1.59		2
6866.829	504.173	9.64	1.42		4
6867.812	504.245	9.71	1.46		4
6869.876	504.396	9.84	1.56		4
6876.872	504.910	9.82	1.47		4
6879.842	505.128	9.56	1.39		4
6880.816	505.199	9.66	1.44		4
6942.647	509.739	10.00	1.55		4
6953.656	510.547	9.96	1.62		4
6954.651	510.621	10.01	1.59		4
6955.642	510.693	10.02	1.57		4
6971.634	511.867	9.91	1.50		4
6972.630	511.941	9.80	1.46		4
6978.612	512.380	9.82	1.56		4
6979.617	512.454	9.89	1.59		4
6981.610	512.600	10.00	1.61		4
6982.624	512.674	9.98	1.57		4

TU CAS

J.D.	CYCLES	V	B-V	U-B	RF
6742.901	3151.919	7.95	0.70		2
6745.943	3153.341	7.23	0.36		2
6746.883	3153.781	7.95	0.71		2
6751.960	3156.154	7.87	0.66	0.35	3
6757.902	3158.931	8.05	0.75		2
6758.884	3159.391	7.64	0.48		2
6759.932	3159.880	7.95	0.71		2
6760.932	3160.348	7.09	0.30		2
6766.842	3163.110	8.13	0.75	0.46	3
6766.908	3163.141	8.03	0.71	0.42	3
6766.947	3163.159	7.96	0.71	0.37	3
6768.826	3164.038	8.00	0.72	0.48	3
6768.906	3164.075	7.95	0.70	0.42	3
6769.952	3164.564	7.52	0.49	0.41	3
6774.909	3166.881	7.87	0.71	0.38	3
6783.835	3171.054	8.26	0.66	0.43	3
6783.842	3171.057	8.06	0.73	0.41	3
6783.846	3171.059	8.05	0.73	0.41	3
6783.881	3171.075	8.03	0.70	0.43	3
6783.890	3171.079	8.01	0.70	0.39	3
6783.899	3171.084	8.00	0.72	0.39	3
6783.910	3171.089	7.99	0.72	0.39	3
6783.919	3171.093	7.96	0.68	0.42	3
6783.930	3171.098	7.94	0.70	0.37	3
6783.971	3171.117	7.93	0.67	0.37	3

TU CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6783.981	3171.122	7.92	0.67	0.36	3
6783.991	3171.127	7.90	0.68	0.37	3
6784.001	3171.131	7.91	0.65	0.29	3
6784.985	3171.591	7.67	0.58	0.35	3
6791.990	3174.866	7.95	0.74	0.45	3
6792.911	3175.310	7.12	0.34	0.34	3
6793.958	3175.786	7.96	0.74	0.43	3
6796.857	3177.141	8.02	0.74		2
6805.938	3181.386	7.58	0.53	0.35	3
6806.916	3181.843	7.87	0.72	0.43	3
6806.927	3181.848	7.89	0.69	0.41	2
6807.893	3182.299	7.24	0.36	0.32	3
6807.916	3182.310	7.12	0.37	0.31	2
6808.836	3182.740	7.94	0.73	0.44	2
6808.896	3182.768	7.95	0.76	0.47	3
6809.733	3183.159	7.83	0.63	0.33	2
6809.911	3183.243	7.53	0.50	0.34	3
6809.949	3183.260	7.50	0.46	0.35	2
6810.712	3183.617	7.75	0.59	0.36	2
6810.924	3183.716	7.81	0.67	0.39	3
6810.931	3183.719	7.82	0.67	0.40	2
6811.783	3184.118	8.01	0.66	0.44	2
6811.834	3184.142	8.01	0.70	0.40	2
6811.920	3184.182	7.98	0.70	0.42	3
6811.926	3184.185	7.95	0.68	0.41	2
6811.999	3184.219	7.87	0.65	0.36	2
6812.706	3184.549	7.53	0.35	0.33	2
6812.817	3184.601	7.62	0.57	0.38	2
6812.908	3184.644	7.68	0.63	0.39	2
6812.914	3184.646	7.71	0.61	0.40	3
6813.884	3185.100	8.12	0.76	0.47	3
6814.896	3185.573	7.76	0.68	0.40	3
6815.873	3186.030	8.00	0.72	0.42	3
6816.876	3186.498	7.49	0.51	0.35	3
6817.803	3186.932	7.98	0.75	0.45	3
6818.760	3187.379	7.20	0.38	0.37	3
6818.791	3187.394	7.27	0.39	0.37	3
6819.798	3187.864	7.99	0.77	0.47	3
6845.760	3200.000	8.10	0.74	0.42	2
6845.818	3200.027	8.08	0.78	0.47	3
6846.815	3200.493	7.68	0.62	0.37	3
6848.821	3201.431	7.28	0.43	0.32	3
6849.822	3201.899	8.01	0.75	0.44	3
6853.746	3203.733	7.76	0.62	0.40	2
6856.666	3205.098	8.01	0.71		2
6858.745	3206.070	8.00	0.69		2

UZ CAS

J.D.	CYCLES	V	B-V	U-B	RF
6742.933	1583.049	11.61	1.18		2
6746.931	1583.988	11.60	1.15		2
6757.921	1586.568	11.33	1.18		2
6759.919	1587.037	11.68	1.08		2
6796.889	1595.717	11.51	1.17		2
6809.810	1598.750	11.55	1.20	0.77	2
6810.856	1598.996	11.66	1.16	0.74	2

TABLE 1 (continued)

UZ CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6811.863	1599.232	10.92	0.89	0.61	2
6812.955	1599.488	11.21	1.12	0.68	2
6813.937	1599.719	11.51	1.27	0.80	2
6814.709	1599.900	11.70	1.27	0.89	2
6815.883	1600.176	11.1[illegible]	0.93	0.65	2
6816.694	1600.366	11.13	1.02	0.61	2
6817.770	1600.619	11.51	1.13	0.84	2
6827.747	1602.961	11.71	1.30		4
6827.931	1603.004	11.73	1.23		4
6829.909	1603.469	11.28	1.10		4
6830.904	1603.702	11.53	1.19		4
6837.750	1605.310	11.01	0.91		4
6843.818	1606.734	11.53	1.20		4
6845.792	1607.198	10.94	0.86	0.73	2
6847.748	1607.657	11.46	1.18		4
6848.749	1607.892	11.67	1.27		4
6853.763	1609.069	11.56	1.19		2
6856.697	1609.758	11.54	1.22		2
6858.767	1610.244	11.01	0.81		2
6866.762	1612.121	11.39	1.04		4
6867.773	1612.358	11.08	0.95		4
6869.819	1612.838	11.62	1.26		4
6876.823	1614.483	11.27	1.10		4
6879.765	1615.173	11.04	0.91		4
6880.760	1615.407	11.16	1.01		4
6942.635	1629.934	11.71	1.23		4
6949.686	1631.589	11.42	1.18		4
6953.634	1632.516	11.33	1.10		4
6954.636	1632.751	11.61	1.20		4
6977.609	1638.144	11.22	0.99		4
6979.602	1638.612	11.45	1.14		4
6981.593	1639.080	11.60	1.14		4
6982.606	1639.318	11.02	0.94		4
6983.614	1639.554	11.44	1.13		4
7215.735	1694.050	11.67	1.21	0.80	1

VV CAS

J.D.	CYCLES	V	B-V	U-B	RF
6792.995	1094.312	10.72	1.20	0.85	-3
6796.905	1094.942	10.63	1.09		2
6797.956	1095.111	10.40	0.96		2
6806.956	1096.561	11.01	1.30	0.92	2
6806.980	1096.565	11.04	1.37	0.71	-3
6807.959	1096.722	11.19	1.42	0.99	3
6808.954	1096.883	10.96	1.16	0.91	3
6809.826	1097.023	10.32	0.93	0.65	2
6809.968	1097.045	10.28	0.96	0.66	3
6810.880	1097.193	10.59	1.03	0.74	2
6810.976	1097.208	10.35	1.10	0.80	3
6811.892	1097.356	10.76	1.20	0.84	2
6812.831	1097.507	10.89	1.28	0.82	2
6813.758	1097.657	11.03	1.30	0.86	2
6813.923	1097.683	11.12	1.31	0.90	3
6814.838	1097.831	11.11	1.28	0.82	2
6814.944	1097.848	11.11	1.23	0.86	3
6815.833	1097.991	10.35	0.94	0.69	2

VV CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6815.938	1098.008	10.32	0.90	0.67	3
6816.934	1098.152	10.49	1.03	0.70	2
6816.927	1098.167	10.41	1.07	0.64	3
6817.825	1098.312	10.70	1.17	0.79	2
6818.815	1098.471	10.84	1.23	0.84	2
6820.795	1098.790	11.18	1.31	0.94	2
6827.762	1099.913	10.80	1.07		4
6827.937	1099.941	10.60	1.05		4
6830.930	1100.423	10.79	1.20		4
6832.887	1100.738	11.16	1.32		4
6833.854	1100.894	10.89	1.19	0.71	2
6837.775	1101.526	10.93	1.28		4
6843.836	1102.502	10.86	1.25		4
6845.871	1102.830	11.13	1.26	0.94	-3
6845.861	1102.832	11.08	1.27	0.90	2
6846.875	1102.997	10.34	0.95	0.65	3
6847.765	1103.135	10.41	1.00		4
6847.899	1103.157	10.46	1.01		4
6848.787	1103.296	10.69	1.18		4
6848.880	1103.315	10.70	1.18	0.79	-3
6849.850	1103.471	10.80	1.24	0.97	-3
6853.784	1104.105	10.41	0.93	0.74	2
6856.717	1104.577	11.00	1.28		2
6858.791	1104.911	10.77	1.10		2
6866.812	1106.203	10.54	1.08		4
6867.799	1106.362	10.77	1.17		4
6869.846	1106.692	11.10	1.34		4
6876.864	1107.823	11.11	1.28		4
6879.809	1108.297	10.65	1.16		4
6880.805	1108.457	10.82	1.23		4
6940.717	1118.109	10.37	1.01		4
6949.697	1119.556	11.00	1.29		4
6951.659	1119.872	11.00	1.19		4
6971.630	1123.089	10.39	0.97		4
6972.618	1123.248	10.61	1.13		4
6977.620	1124.054	10.28	0.94		4
6982.617	1124.859	11.02	1.21		4
6983.630	1125.022	10.28	0.92		4
7162.930	1153.906	10.84	1.17	0.63	1
7206.888	1160.987	10.35	0.92	0.61	1
7240.753	1166.443	10.83	1.26	0.80	1
7267.693	1170.783	11.18	1.35	0.92	1

VW CAS

J.D.	CYCLES	V	B-V	U-B	RF
6746.923	1125.636	11.06	1.44		2
6757.911	1127.470	10.92	1.36		2
6759.933	1127.807	10.84	1.27		2
6760.952	1127.977	10.40	1.04		2
6792.956	1133.316	10.71	1.29	0.80	3
6796.884	1133.972	10.42	1.06		2
6806.963	1135.653	11.05	1.44	0.82	-3
6807.940	1135.816	10.82	1.22	0.78	3
6808.937	1135.983	10.40	1.03	0.77	3
6809.784	1136.124	10.57	1.19	0.78	2
6809.935	1136.149	10.59	1.16	0.85	3

TABLE 1 (continued)

VW CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6810.847	1136.301	10.70	1.29	0.90	2
6811.855	1136.470	10.91	1.34	0.97	2
6811.940	1136.484	10.90	1.35	0.97	3
6814.719	1136.947	10.48	1.05	0.62	2
6814.931	1136.983	10.36	1.07	0.72	3
6815.898	1137.144	10.58	1.19	0.69	3
6817.868	1137.473	10.90	1.35	0.95	3
6818.806	1137.629	11.02	1.42	1.01	3
6819.832	1137.800	10.84	1.26	0.99	3
6827.738	1139.119	10.51	1.18		4
6827.915	1139.149	10.56	1.17		4
6829.901	1139.480	10.88	1.09		4
6830.895	1139.646	11.07	1.40		4
6837.745	1140.789	10.89	1.30		4
6843.814	1141.801	10.84	1.25		4
6844.855	1141.975	10.40	1.04	0.74	3
6845.783	1142.130	10.48	1.15	0.89	2
6847.745	1142.457	10.86	1.35		4
6848.745	1142.624	11.02	1.42		4
6849.834	1142.806	10.84	1.25	0.89	3
6853.768	1143.462	10.93	1.35		2
6856.781	1143.965	10.41	1.04		2
6858.773	1144.297	10.70	1.32		2
6867.766	1145.798	10.86	1.27		4
6869.799	1146.137	10.54	1.19		4
6876.815	1147.307	10.71	1.28		4
6879.670	1147.784	10.91	1.28		4
6879.825	1147.809	10.80	1.25		4
6880.753	1147.964	10.37	1.04		4
6880.866	1147.983	10.39	1.05		4
6940.642	1157.956	10.37	1.06		4
6943.578	1158.446	10.88	1.34		4
6951.639	1159.791	10.88	1.25		4
6953.589	1160.116	10.49	1.16		4
6955.593	1160.450	10.89	1.36		4
6978.596	1164.288	10.69	1.32		4
6980.600	1164.622	11.03	1.40		4
6982.603	1164.957	10.97	1.04		4
7184.858	1198.700	11.01	1.38	1.05	3

XY CAS

J.D.	CYCLES	V	B-V	U-B	RF
6792.940	1508.986	10.17	1.22	0.70	3
6796.877	1509.859	10.24	1.27		2
6805.987	1511.882	10.24	1.31	0.82	3
6806.95[illegible]	1512.097	9.85	1.05	0.67	3
6807.[illegible]	1512.314	9.78	1.06	0.75	3
6808.847	1512.518	9.99	1.19	0.86	2
6808.929	1512.536	10.02	1.23	0.82	3
6809.781	1512.725	10.18	1.26	0.92	2
6809.928	1512.758	10.18	1.27	0.94	3
6810.816	1512.955	10.22	1.21	0.86	2
6810.938	1512.982	10.21	1.20	0.83	3
6811.846	1513.384	9.68	0.96	0.69	2
6811.933	1513.203	9.66	0.97	0.68	3
6812.785	1513.392	9.86	1.10	0.78	2
6812.927	1513.424	9.92	1.13	0.76	3

XY CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6813.738	1513.604	10.07	1.20	0.86	2
6815.803	1514.063	9.99	1.02	0.75	2
6815.889	1514.082	9.94	1.06	0.70	3
6816.770	1514.276	9.73	1.04	0.70	2
6816.911	1514.309	9.76	1.08	0.74	3
6825.703	1516.262	9.72	1.01		4
6827.731	1516.712	10.12	1.27		4
6827.910	1516.752	10.13	1.27		4
6829.857	1517.196	9.67	0.98		4
6830.892	1517.415	9.87	1.14		4
6832.863	1517.852	10.21	1.24		4
6836.741	1518.714	10.12	1.26	0.94	2
6837.711	1518.929	10.19	1.26		4
6843.811	1520.284	9.69	1.01		4
6845.774	1520.720	10.07	1.30	0.94	2
6846.822	1520.953	10.22	1.24	0.85	3
6847.742	1521.158	9.60	0.96		4
6848.724	1521.376	9.81	1.10		4
6848.834	1521.400	9.89	1.13	0.71	3
6849.828	1521.621	10.08	1.22	0.85	3
6853.756	1522.494	9.96	1.15	0.85	2
6856.775	1523.164	9.70	1.01		2
6858.759	1523.605	10.04	1.22		2
6867.737	1525.599	10.05	1.23		4
6869.772	1526.051	9.95	1.12		4
6876.808	1527.614	10.05	1.22		4
6879.760	1528.270	9.67	1.01		4
6880.722	1528.484	9.91	1.16		4
6941.608	1542.009	10.09	1.21		4
6948.611	1543.565	10.02	1.19		4
6953.632	1544.680	10.10	1.24		4
6954.623	1544.902	10.24	1.24		4
6955.627	1545.123	9.77	1.01		4
6972.604	1548.895	10.22	1.26		4
6982.601	1551.115	9.76	0.99		4
6983.604	1551.338	9.78	1.07		4

AP CAS

J.D.	CYCLES	V	B-V	U-B	RF
6830.887	997.647	11.87	1.59		4
6836.824	998.514	11.68	1.52	0.85	2
6837.704	998.642	11.85	1.97		4
6837.900	998.671	11.87	1.58		4
6843.807	999.534	11.70	1.54		4
6845.767	999.820	11.67	1.43	0.64	2
6846.852	999.978	11.31	1.24	0.69	2
6847.738	1000.108	11.34	1.33		4
6848.719	1000.251	11.47	1.43		4
6852.751	1000.840	11.57	1.36	0.67	2
6853.749	1000.986	11.27	1.22	0.70	2
6856.671	1001.412	11.56	1.45		2
6857.684	1001.560	11.74	1.45		2
6858.751	1001.716	11.84	1.42		2
6869.762	1003.324	11.49	1.44		4
6876.803	1004.353	11.54	1.44		4
6879.754	1004.784	11.72	1.52		4

TABLE 1 (continued)

AP CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6880.716	1004.924	11.41	1.28		4
6942.619	1013.965	11.32	1.27		4
6953.624	1015.572	11.82	1.56		4
6954.629	1015.719	11.92	1.56		4
6955.624	1015.865	11.57	1.39		4
6971.622	1018.201	11.47	1.41		4
6977.605	1019.075	11.27	1.30		4
6978.593	1019.219	11.46	1.45		4
6980.596	1019.512	11.68	1.51		4
6985.596	1019.950	11.35	1.30		4
7593.813	1109.072	11.31	1.28	0.86	1
7596.822	1109.511	11.68	1.50	1.09	1
7597.776	1109.650	11.80	1.50	1.23	1
7600.737	1110.083	11.32	1.27	0.95	1
7601.647	1110.216	11.50	1.35	1.07	1
7619.665	1112.847	11.55	1.39	1.00	1
7621.731	1113.149	11.39	1.35	1.01	1
7623.656	1113.430	11.60	1.48	1.24	1
7625.589	1113.727	11.80	1.50	1.14	1
7635.650	1115.182	11.46	1.41	1.02	1
7646.643	1116.787	11.65	1.54	1.08	1
7652.650	1116.934	11.34	1.27	0.87	1
7654.658	1117.938	11.32	1.23	0.72	1
7656.611	1118.243	11.49	1.39	1.00	1
7658.666	1118.543	11.68	1.48	1.14	1
7660.647	1118.833	11.60	1.35	1.04	1
7661.635	1118.977	11.26	1.26	0.89	1

AY CAS

J.D.	CYCLES	V	B-V	U-B	RF
6829.924	2378.631	11.55	1.26		4
6830.924	2378.979	11.45	1.29		4
6832.878	2379.660	11.18	1.08		4
6837.764	2381.361	11.83	1.46		4
6837.933	2381.420	11.87	1.43		4
6843.829	2383.473	11.78	1.40		4
6847.759	2384.842	11.31	1.19		4
6847.891	2384.888	11.38	1.20		4
6848.759	2385.190	11.09	1.39		4
6866.785	2391.468	11.85	1.43		4
6867.785	2391.816	11.28	1.17		4
6869.831	2392.529	11.76	1.35		4
6876.853	2394.975	11.45	1.26		4
6879.676	2395.958	11.41	1.24		4
6879.830	2396.011	11.46	1.29		4
6880.775	2396.340	11.80	1.43		4
6940.708	2417.213	11.69	1.40		4
6948.616	2419.967	11.43	1.24		4
6951.654	2421.025	11.60	1.33		4
6953.646	2421.719	11.24	1.12		4
6954.642	2422.066	11.60	1.31		4
6955.631	2422.410	11.90	1.44		4
6972.611	2428.324	11.80	1.41		4
6975.610	2429.368	11.82	1.45		4
6980.607	2431.108	11.64	1.37		4
6982.612	2431.807	11.19	1.13		4

AY CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7162.942	2494.610	11.73	1.10	1.26	1

BP CAS

J.D.	CYCLES	V	B-V	U-B	RF
6797.923	1083.818	10.70	1.43		2
6810.838	1085.877	10.79	1.51	1.04	2
6811.876	1086.043	10.94	1.60	1.19	2
6812.810	1086.191	11.18	1.65	1.14	2
6813.748	1086.341	11.24	1.73	1.28	2
6814.827	1086.513	11.07	1.60	1.05	2
6815.812	1086.670	10.56	1.34	0.99	2
6816.777	1086.824	10.72	1.48	1.03	2
6817.844	1086.996	10.89	1.54	1.09	2
6818.759	1087.140	11.06	1.71	1.19	2
6820.777	1087.462	11.25	1.64	1.16	2
6829.914	1088.918	10.90	1.57		4
6830.910	1089.077	11.00	1.59		4
6833.844	1089.545	10.93	1.45	1.02	2
6834.905	1089.714	10.57	1.36	0.96	2
6837.754	1090.168	11.15	1.68		4
6843.822	1091.136	11.07	1.66		4
6845.801	1091.451	11.27	1.60	1.16	2
6847.752	1091.762	10.63	1.40		4
6848.753	1091.922	10.86	1.55		4
6853.772	1092.722	10.58	1.37	0.96	2
6856.705	1093.190	11.14	1.69		2
6858.779	1093.521	10.97	1.54		2
6866.767	1094.794	10.68	1.46		4
6867.778	1094.955	10.91	1.54		4
6869.825	1095.282	11.22	1.71		4
6876.831	1096.399	11.32	1.70		4
6879.796	1096.871	10.76	1.50		4
6880.769	1097.026	10.92	1.58		4
6940.705	1106.582	10.78	1.43		4
6941.614	1106.727	10.58	1.41		4
6951.645	1108.326	11.30	1.69		4
6953.639	1108.644	10.57	1.33		4
6971.626	1111.532	11.09	1.56		4
6972.608	1111.669	10.57	1.33		4
6977.616	1112.467	11.21	1.63		4
6978.602	1112.624	10.58	1.35		4
6979.606	1112.784	10.66	1.43		4
6983.616	1113.424	11.35	1.64		4

BY CAS

J.D.	CYCLES	V	B-V	U-B	RF
6792.964	2108.896	10.51	1.34	0.87	3
6793.952	2109.202	10.37	1.30	0.79	2
6796.895	2110.116	10.46	1.30		2
6797.934	2110.439	10.16	1.22		2
6806.901	2113.223	10.38	1.27	0.80	2
6806.972	2113.245	10.35	1.29	0.84	3
6807.901	2113.533	10.19	1.23	0.80	2
6807.950	2113.548	10.19	1.22	0.78	3
6808.861	2113.831	10.48	1.35	0.90	2
6808.946	2113.857	10.49	1.37	0.90	3

TABLE 1 (continued)

BY CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6809.817	2114.128	10.51	1.33	0.77	2
6809.951	2114.173	10.41	1.28	0.86	3
6810.862	2114.452	10.17	1.22	0.77	2
6810.968	2114.485	10.17	1.19	0.82	3
6811.885	2114.770	10.47	1.31	0.82	2
6811.947	2114.789	10.42	1.35	0.81	3
6812.799	2115.054	10.54	1.38	0.80	2
6812.935	2115.096	10.53	1.33	0.92	3
6813.916	2115.400	10.19	1.19	0.82	3
6814.741	2115.657	10.32	1.28	0.78	2
6814.937	2115.717	10.37	1.32	0.82	3
6815.906	2116.018	10.56	1.38	0.94	3
6816.919	2116.333	10.24	1.23	0.82	3
6817.876	2116.630	10.27	1.26	0.82	3
6818.813	2116.921	10.52	1.36	0.84	3
6819.796	2117.226	10.37	1.30	0.74	2
6820.785	2117.533	10.20	1.23	0.74	2
6833.851	2121.589	10.21	1.22	0.88	2
6834.910	2121.918	10.48	1.38	0.89	2
6837.772	2122.807	10.45	1.36		4
6837.939	2122.858	10.50	1.39		4
6843.833	2124.688	10.31	1.28		4
6845.825	2125.307	10.25	1.22	0.77	3
6845.871	2125.321	10.17	1.23	0.86	2
6846.869	2125.631	10.28	1.23	0.81	3
6847.761	2125.908	10.50	1.36		4
6847.895	2125.949	10.53	1.36		4
6848.763	2126.219	10.38	1.29		4
6849.842	2126.554	10.20	1.21	0.82	3
6853.778	2127.776	10.42	1.34	0.88	2
6856.712	2128.687	10.32	1.33		2
6858.784	2129.330	10.33	1.21		2
6867.791	2132.126	10.48	1.31		4
6869.838	2132.762	10.38	1.34		4
6876.859	2134.941	10.51	1.36		4
6879.802	2135.835	10.45	1.33		4
6880.780	2136.159	10.44	1.29		4
6940.714	2154.765	10.39	1.33		4
6941.690	2155.068	10.55	1.37		4
6941.578	2155.033	10.51	1.39		4
6942.668	2155.372	10.22	1.22		4
6942.575	2155.343	10.24	1.24		4
6948.623	2157.221	10.37	1.28		4
6949.694	2157.553	10.17	1.22		4
6954.662	2159.095	10.51	1.35		4
6954.585	2159.071	10.53	1.35		4
6955.636	2159.398	10.20	1.23		4
6972.615	2164.669	10.28	1.28		4
6975.615	2165.600	10.22	1.25		4
6978.606	2166.529	10.14	1.21		4
6980.612	2167.152	10.47	1.32		4
6981.603	2167.459	10.18	1.21		4

CD CAS

J.D.	CYCLES	V	B-V	U-B	RF
6784.865	869.705	10.89	1.44		3

CD CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6786.918	869.968	11.06	1.68		3
6787.908	870.095	10.92	1.51	0.90	3
6791.910	870.608	10.65	1.51	1.17	-3
6793.884	870.861	11.13	1.59		3
6805.840	872.394	10.54	1.40	0.96	-3
6806.810	872.518	10.57	1.42	1.05	3
6810.857	873.037	11.07	1.62		3
6811.865	873.166	10.63	1.32	0.97	3
6812.859	873.293	10.40	1.26	0.87	3
6813.827	873.418	10.56	1.40	0.89	3
6819.782	874.181	10.55	1.33	1.02	3
6833.781	875.975	11.16	1.69		4
6837.665	876.473	10.59	1.43		4
6837.884	876.501	10.59	1.48		4
6843.722	877.250	10.37	1.25		4
6845.763	877.511	10.55	1.38	0.96	-3
6847.700	877.760	10.95	1.62		4
6848.688	877.886	11.11	1.67		4
6867.679	880.320	10.41	1.31		4
6869.647	880.573	10.58	1.44		4
6876.693	881.476	10.58	1.41		4
6879.636	881.853	11.02	1.64		4
6880.663	881.985	11.14	1.64		4
6940.616	889.670	10.83	1.50		4
6942.599	889.924	11.16	1.67		4
6943.586	890.050	11.07	1.57		4
6948.577	890.690	10.87	1.59		4
6951.604	891.078	10.94	1.56		4
6953.606	891.335	10.44	1.32		4
6954.580	891.460	10.60	1.42		4
6955.602	891.591	10.65	1.47		4
6975.585	894.152	10.78	1.37		4
6977.584	894.408	10.54	1.42		4
6979.584	894.665	10.84	1.54		4
6982.575	895.048	11.02	1.59		4
7159.925	917.781	10.94	1.66	1.33	1
7206.799	923.790	11.01	1.63	1.23	1
7220.764	925.580	10.69	0.84	0.28	1
7263.601	931.071	12.05	0.69	0.32	1

CF CAS

J.D.	CYCLES	V	B-V	U-B	RF
5668.936	1162.806	11.20	1.30	0.96	20
5669.825	1162.989	11.31	1.35	0.93	20
5669.962	1163.017	11.34	1.33	0.90	20
5670.828	1163.194	11.22	1.24	0.82	20
5670.966	1163.223	11.13	1.19	0.75	20
5687.768	1166.669	11.06	1.25	0.92	20
5687.867	1166.689	11.10	1.26	0.91	20
5687.965	1166.709	11.10	1.27	0.90	20
5688.863	1166.894	11.25	1.32	0.93	20
5688.964	1166.914	11.29	1.30	0.97	20
5689.811	1167.088	11.39	1.32	0.92	20
5689.973	1167.121	11.39	1.32	0.95	20
5690.855	1167.302	10.91	1.09	0.70	20
5690.870	1167.305	10.90	1.09	0.68	20
5690.974	1167.327	10.87	1.06	0.66	20

TABLE 1 (continued)

CF CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5691.779	1167.492	10.92	1.13	0.69	20
5691.973	1167.532	10.99	1.16	0.77	20
5752.723	1179.993	11.32	1.36	0.98	20
5752.739	1179.996	11.34	1.34	0.97	20
5752.967	1180.043	11.32	1.34	0.96	20
5754.773	1180.413	10.84	1.07	0.70	20
6128.876	1257.149	11.32	1.33	0.87	20
6128.898	1257.153	11.32	1.28		20
6129.803	1257.339	10.87	1.03	0.69	20
6130.638	1257.510	10.93	1.13	0.76	20
6130.644	1257.511	10.95	1.13	0.73	20
6130.915	1257.567	11.00	1.18	0.77	20
6130.933	1257.571	11.01	1.16	0.82	20
6135.620	1258.532	10.94	1.16	0.79	20
7206.836	1478.259	11.03	1.14	0.72	1
7261.663	1489.505	10.92	1.18	0.76	1

CG CAS

J.D.	CYCLES	V	B-V	U-B	RF
6784.923	1554.303	11.02	1.03	0.79	-3
6786.970	1554.772	11.45	1.40		3
6787.950	1554.997	11.67	1.38		3
6791.964	1555.916	11.58	1.44		3
6792.896	1556.130	11.74	1.38		3
6793.929	1556.367	10.90	1.03	0.79	3
6805.909	1559.111	11.74	1.46		3
6806.881	1559.334	10.93	0.99	0.75	3
6807.872	1559.561	11.21	1.18	0.77	3
6809.868	1560.018	11.70	1.39		3
6810.881	1560.250	11.26	1.22	0.86	3
6811.881	1560.479	11.03	1.14	0.65	3
6814.876	1561.165	11.65	1.44		3
6815.817	1561.381	10.91	1.08	0.63	3
6819.790	1562.291	11.08	1.07	0.67	3
6843.747	1567.779	11.50	1.38		4
6847.718	1568.689	11.38	1.30		4
6848.741	1568.923	11.62	1.41		4
6869.702	1573.725	11.43	1.31		4
6876.765	1575.343	10.90	1.02		4
6880.686	1576.241	11.36	1.21		4
6940.629	1589.973	11.65	1.42		4
6941.597	1590.195	11.59	1.34		4
6942.612	1590.427	11.00	1.07		4
6943.598	1590.653	11.37	1.28		4
6948.591	1591.797	11.52	1.38		4
6951.622	1592.491	11.08	1.15		4
6953.612	1592.947	11.64	1.38		4
6954.615	1593.177	11.66	1.34		4
6955.612	1593.405	10.97	1.07		4
6971.610	1597.070	11.74	1.40		4
6972.590	1597.295	11.05	1.09		4
6977.598	1598.442	10.96	1.11		4
6978.584	1598.668	11.36	1.32		4
6979.591	1598.898	11.59	1.40		4
6980.588	1599.127	11.69	1.41		4
6982.591	1599.586	11.22	1.21		4

CG CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6983.582	1599.813	11.52	1.36		4

CH CAS

J.D.	CYCLES	V	B-V	U-B	RF
6829.822	452.816	11.40	1.94		4
6830.810	452.881	11.49	1.88		4
6832.782	453.012	11.40	1.79		4
6833.652	453.070	11.26	1.75		4
6837.633	453.334	10.51	1.46		4
6843.702	453.736	11.27	1.87		4
6846.709	453.936	11.44	1.87		4
6847.677	454.000	11.36	1.82		4
6848.670	454.066	11.24	1.75		4
6866.620	455.256	10.44	1.39		4
6867.624	455.322	10.45	1.41		4
6869.613	455.454	10.77	1.61		4
6876.643	455.920	11.44	1.87		4
6879.615	456.117	11.14	1.66		4
6880.616	456.184	11.01	1.61		4
6941.563	460.224	10.69	1.52		4
6942.585	460.292	10.39	1.37		4
6943.565	460.357	10.60	1.50		4
6948.572	460.689	11.14	1.85		4
6953.574	461.021	11.31	1.77		4
6955.572	461.153	11.12	1.66		4
6971.584	462.215	10.81	1.52		4
6972.577	462.281	10.38	1.34		4
6977.577	462.612	10.93	1.79		4

CS CAS

J.D.	CYCLES	V	B-V	U-B	RF
6830.851	463.637	11.79	0.76		4
6837.671	464.100	12.77	1.21		4
6843.729	464.511	11.45	0.57		4
6847.705	464.781	11.77	0.90		4
6848.694	464.848	11.82	0.95		4
6866.681	466.069	12.67	1.19		4
6869.676	466.272	12.60	0.89		4
6876.745	466.752	11.78	0.90		4
6879.664	466.950	12.08	1.04		4
6880.670	467.018	12.41	1.13		4
6941.589	471.153	12.90	1.12		4
6942.603	471.222	12.75	0.97		4
6948.584	471.623	11.78	0.83		4
6951.607	471.833	11.86	0.91		4
6953.597	471.968	12.20	1.05		4
6955.606	472.104	12.88	1.18		4
6971.601	473.190	12.88	1.08		4
6975.588	473.461	11.73	0.64		4
6977.586	473.596	11.71	0.71		4
6978.577	473.663	11.84	0.83		4
6982.575	473.935	12.07	1.03		4
7143.941	484.887	11.98	1.00	0.80	1
7147.944	485.159	12.87	1.16	0.68	1
7159.809	485.970	12.19	1.05	0.92	1
7178.932	487.262	12.60	0.91	0.32	1

TABLE 1 (continued)

CS CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7191.888	488.142	12.86	1.13	0.82	1
7206.786	489.153	12.83	1.07	0.71	1
7217.738	489.896	12.00	1.02	0.85	1
7220.747	490.100	12.80	1.19	1.00	1
7221.792	490.171	12.65	1.10	0.57	1
7261.651	492.877	11.93	0.97	0.77	1
7265.636	493.011	12.37	1.13	1.11	1
7267.637	493.283	12.42	0.78	0.21	1

CY CAS

J.D.	CYCLES	V	B-V	U-B	RF
6829.828	475.076	11.38	1.46		4
6830.614	475.144	11.48	1.74		4
6832.792	475.282	11.72	1.82		4
6833.659	475.342	11.85	1.86		4
6837.645	475.619	12.22	1.93		4
6837.865	475.635	12.19	1.94		4
6843.706	476.041	11.31	1.59		4
6846.713	476.250	11.61	1.83		4
6847.686	476.318	11.73	1.89		4
6848.673	476.386	11.87	1.94		4
6866.629	477.635	12.15	1.91		4
6867.630	477.705	11.97	1.85		4
6869.619	477.843	11.47	1.51		4
6876.648	478.332	11.78	1.97		4
6879.621	478.539	12.14	1.98		4
6880.622	478.609	12.16	1.96		4
6940.610	482.781	11.94	1.73		4
6941.567	482.848	11.36	1.53		4
6942.588	482.919	11.07	1.40		4
6943.572	482.987	11.24	1.49		4
6953.580	483.684	12.03	1.83		4
6954.566	483.752	11.93	1.74		4
6955.575	483.822	11.80	1.69		4
6971.587	484.936	11.14	1.42		4
6972.580	485.005	11.25	1.53		4
6978.574	485.422	11.92	2.02		4
6979.573	485.492	12.07	2.02		4
6980.571	485.563	12.14	1.99		4
7273.594	505.943	12.18	1.45	1.02	1

CZ CAS

J.D.	CYCLES	V	B-V	U-B	RF
6829.863	1205.757	12.12	1.40		4
6830.835	1205.928	11.84	1.38		4
6832.826	1206.280	11.66	1.37		4
6833.774	1206.44.	11.81	1.50		4
6837.655	1207.132	11.38	1.27		4
6837.879	1207.172	11.44	1.36		4
6843.715	1208.202	11.49	1.29		4
6846.727	1208.734	12.08	1.60		4
6847.696	1208.905	11.87	1.47		4
6848.684	1209.079	11.30	1.22		4
6867.651	1212.428	11.75	1.52		4
6869.638	1212.779	12.12	1.60		4
6876.663	1214.019	11.36	1.22		4

CZ CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6879.631	1214.543	11.85	1.53		4
6880.639	1214.721	12.07	1.58		4
6942.595	1225.658	12.03	1.60		4
6943.582	1225.833	12.09	1.54		4
6951.599	1227.248	11.51	1.37		4
6953.584	1227.598	11.93	1.58		4
6954.609	1227.779	12.11	1.59		4
6955.599	1227.954	11.67	1.36		4
6975.582	1231.482	11.91	1.50		4
6980.579	1232.364	11.68	1.45		4

DD CAS

J.D.	CYCLES	V	B-V	U-B	RF
6774.979	690.505	9.64	1.08	0.75	3
6784.914	691.518	9.64	1.08	0.75	3
6786.959	691.727	9.71	1.20	0.92	3
6787.940	691.827	9.87	1.30	1.10	3
6791.930	692.233	10.00	1.28	0.97	3
6792.886	692.331	9.90	1.19	0.78	3
6793.900	692.434	9.77	1.16	0.79	3
6805.899	693.657	9.64	1.14	0.82	3
6807.861	693.857	9.92	1.35	1.02	3
6808.872	593.960	10.08	1.40	1.17	3
6809.858	694.061	10.17	1.41	1.15	3
6810.873	694.164	10.12	1.39	1.02	3
6814.868	694.571	9.57	1.08	0.77	3
6815.810	694.667	9.67	1.18	0.90	3
6843.742	697.514	9.62	1.07		4
6844.824	697.624	9.63	1.14	0.77	3
6847.711	697.919	10.00	1.39		4
6848.73	698.023	10.11	1.44		4
6849.77.	698.128	10.18	1.35	1.01	3
6866.717	699.856	9.90	1.32		4
6867.699	699.956	10.06	1.40		4
6869.689	700.159	10.12	1.35		4
6875.755	700.819	9.91	1.32		4
6879.687	701.178	10.06	1.32		4
6880.681	701.279	9.90	1.22		4
6940.624	707.348	9.78	1.17		4
6941.594	707.487	9.69	1.11		4
6942.609	707.591	9.60	1.08		4
6943.596	707.691	9.69	1.17		4
6951.612	708.508	9.63	1.07		4
6953.609	708.712	9.68	1.17		4
6954.612	708.814	9.84	1.28		4
6971.607	710.566	9.60	1.25		4
6972.587	710.646	9.64	1.12		4
6977.594	711.156	10.11	1.32		4
6979.589	711.359	9.83	1.13		4
6980.585	711.461	9.72	1.12		4
6982.587	711.665	9.63	1.13		4
6983.575	711.766	9.76	1.24		0

DF CAS

J.D.	CYCLES	V	B-V	U-B	RF
6837.814	1284.217	10.71	1.15		4

TABLE 1 (continued)

DF CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6837.948	1784.252	10.77	1.17		4
6847.798	1786.822	11.06	1.24		4
6847.925	1786.855	10.99	1.18		4
6867.855	1792.058	10.56	1.00		4
6869.903	1792.590	11.05	1.29		4
6876.889	1794.413	10.93	1.23		4
6879.866	1795.189	10.66	1.10		4
6880.836	1795.443	10.96	1.25		4
6940.743	1811.074	10.55	1.02		4
6941.661	1811.314	10.86	1.22		4
6942.580	1811.554	11.05	1.27		4
6949.644	1813.136	10.65	1.08		4
6951.685	1813.929	10.73	1.10		4
6953.670	1814.447	10.96	1.26		4
6954.667	1814.708	11.13	1.27		4
6954.592	1814.688	11.11	1.30		4
6972.648	1819.399	10.93	1.26		4
6975.632	1820.178	10.68	1.11		4
6977.645	1820.703	11.10	1.28		4
6978.633	1820.961	10.64	1.03		4
6978.658	1820.958	10.67	1.03		4
6980.631	1821.482	10.99	1.28		4
6981.630	1821.743	11.14	1.27		4
6982.638	1822.006	10.54	0.96		4
7601.704	1983.541	11.08	1.27	0.96	1
7621.761	1988.775	11.11	1.28	0.99	1
7626.738	1990.074	10.53	1.03	0.70	1
7635.677	1992.406	10.96	1.27	0.94	1
7645.782	1995.043	10.53	0.99	0.69	1
7655.710	1997.633	11.11	1.25	1.13	1
7658.696	1998.413	10.86	1.23	0.84	1

DL CAS

J.D.	CYCLES	V	B-V	U-B	RF
6108.833	763.576	8.78	1.14	0.77	12
6121.613	765.173	9.21	1.32	0.93	12
6121.014	765.098	9.24	1.37	0.98	12
6121.954	765.216	9.15	1.28	0.85	12
6121.960	765.216	9.14	1.29	0.84	12
6128.643	766.052	9.19	1.36	0.96	12
6129.790	766.195	9.20	1.29	0.89	12
6130.624	766.299	8.96	1.17	0.79	12
6130.901	766.334	8.89	1.13	0.73	12
6135.605	766.922	9.04	1.30	0.93	12
6219.628	777.424	8.68	1.04	0.72	12
6220.631	777.550	8.78	1.11	0.71	12
6221.627	777.674	8.78	1.20	0.80	12
6221.756	777.690	8.82	1.19	0.85	12
6222.614	777.798	8.91	1.24	0.84	12
6223.623	777.924	9.05	1.29	0.94	12
6226.625	778.299	8.96	1.18	0.75	12
6227.620	778.423	8.68	1.04	0.70	12
6484.738	810.562	8.78	1.11	0.78	17
6751.969	843.965	9.16	1.29	1.08	3
6766.863	845.826	8.97	1.25	0.87	3
6768.890	846.080	9.23	1.40	1.05	3

DL CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6769.972	846.215	9.20	1.27	0.83	3
6805.968	850.714	8.84	1.17	0.86	3
6806.944	850.836	8.99	1.26	0.90	3
6807.899	850.956	9.10	1.32	0.96	3
6809.919	851.208	9.18	1.29	0.89	3
6810.930	851.334	8.92	1.13	0.77	3
6811.926	851.459	8.68	1.08	0.71	3
6812.919	851.583	8.81	1.15	0.77	3
6813.910	851.707	8.84	1.19	0.86	3
6814.924	851.834	8.97	1.28	0.86	3
6815.880	851.953	9.11	1.34	0.94	3
6816.904	852.081	9.24	1.35	0.98	3
6817.809	852.194	9.20	1.32	0.92	3
6818.798	852.318	8.93	1.17	0.81	3
6819.826	852.446	8.66	1.07	0.73	3
6844.848	855.574	8.78	1.13	0.76	3
6848.828	856.071	9.23	1.37	1.01	3
7162.907	895.330	8.92	1.19	0.74	1
7206.876	900.826	8.99	1.27	0.88	1
7261.693	907.678	8.80	1.20	0.78	1
7263.667	907.924	9.13	1.29	0.97	1

DT CAS

J.D.	CYCLES	V	B-V	U-B	RF
7217.706	1506.727	12.64	1.51	1.07	1
7220.719	1507.356	13.28	1.77	1.38	1
7221.727	1507.567	13.29	1.71		1

DW CAS

J.D.	CYCLES	V	B-V	U-B	RF
6791.901	1358.978	11.03	1.39		3
6792.868	1359.172	11.21	1.56		3
6793.877	1359.374	11.33	1.56		3
6805.828	1361.765	10.80	1.31	0.79	3
6809.821	1362.564	11.21	1.49	0.82	3
6812.830	1363.166	11.25	1.55		3
6813.800	1363.360	11.37	1.54		3
6814.813	1363.563	11.25	1.43	0.88	3
6815.802	1363.761	10.84	1.30	0.83	3
6816.825	1363.965	11.01	1.50	0.74	3
6829.850	1366.571	11.26	1.49		4
6830.831	1366.768	10.84	1.29		4
6832.822	1367.166	11.29	1.53		4
6833.673	1367.336	11.37	1.57		4
6837.652	1368.132	11.20	1.59		4
6837.875	1368.177	11.26	1.59		4
6843.712	1369.345	11.36	1.57		4
6846.722	1369.947	11.00	1.44		4
6848.680	1370.339	11.33	1.52		4
6866.655	1373.938	11.00	1.44		4
6866.890	1373.983	11.09	1.47		4
6867.642	1374.133	11.17	1.55		4
6869.631	1374.531	11.35	1.53		4
6876.659	1375.937	11.01	1.43		4
6879.606	1376.527	11.35	1.53		4

TABLE 1 (continued)

DW CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6879.775	1376.561	11.22	1.49		4
6880.634	1376.733	10.79	1.29		4
6943.575	1389.326	11.35	1.57		4
6954.577	1391.528	11.33	1.54		4
6955.580	1391.728	10.82	1.30		4
7159.912	1432.613	11.06	1.43	0.91	1
7160.813	1432.793	10.88	1.33	0.90	1

FM CAS

J.D.	CYCLES	V	B-V	U-B	RF
6751.951	1162.226	9.15	0.94	0.73	3
6766.851	1164.791	9.16	1.14	0.79	3
6768.811	1165.128	9.42	1.16	0.87	3
6769.941	1165.323	8.88	0.85	0.58	3
6772.974	1165.845	9.34	1.12	0.75	3
6773.969	1166.016	9.38	1.20	0.88	3
6784.943	1167.905	9.28	1.14	0.64	3
6786.987	1168.257	9.06	0.96	0.58	3
6787.959	1168.424	8.86	0.88	0.63	3
6793.944	1169.454	8.89	0.91	0.59	3
6805.919	1171.515	8.96	0.93	0.67	3
6806.900	1171.684	9.11	1.07	0.76	3
6808.881	1172.025	9.40	1.16	0.86	3
6809.904	1172.201	9.22	1.04	0.66	3
6810.918	1172.376	8.86	0.88	0.56	3
6811.896	1172.544	8.99	0.99	0.64	3
6814.883	1173.058	9.41	1.19	0.83	3
6816.861	1173.399	8.88	0.89	0.58	3
6818.740	1173.722	9.13	1.09	0.79	3
6825.687	1174.918	9.31	1.16		4
6825.864	1174.949	9.30	1.15		4
6826.876	1175.123	9.39	1.13		4
6827.684	1175.262	9.04	0.98		4
6827.887	1175.297	8.93	0.90		4
6829.878	1175.640	9.08	1.05		4
6830.875	1175.811	9.21	1.11		4
6833.813	1176.317	8.89	0.88		4
6837.690	1176.984	9.36	1.16		4
6843.761	1178.029	9.39	1.20		4
6844.831	1178.213	9.18	1.01	0.69	3
6845.804	1178.381	8.93	0.85	0.59	3
6846.801	1178.553	8.99	1.02	0.63	3
6847.728	1178.712	9.13	1.07		4
6848.706	1178.881	9.26	1.15		4
6848.809	1178.898	9.31	1.14	0.83	3
6849.786	1179.066	9.42	1.17	0.83	3
6866.727	1181.984	9.36	1.17		4
6867.717	1182.153	9.34	1.11		4
6869.749	1182.503	8.91	0.96		4
6876.780	1183.713	9.12	1.07		4
6879.714	1184.218	9.13	1.00		4
6880.703	1184.388	8.82	0.85		4
6948.603	1196.076	9.40	1.17		4
6951.631	1196.597	9.05	0.99		4
6954.622	1197.112	9.41	1.13		4
6977.602	1201.063	9.36	1.15		4

FM CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6979.595	1201.411	8.85	0.86		4
6983.588	1202.098	9.40	1.16		4
7142.960	1229.531	8.98	0.99	0.61	1
7159.967	1232.458	8.89	0.92	0.57	1
7160.867	1232.613	9.08	1.04	0.66	1
7162.899	1232.963	9.33	1.18	0.84	1
7206.862	1240.531	8.96	0.96	0.62	1
7240.741	1246.362	8.83	0.89	0.51	1
7261.672	1249.965	9.34	1.17	0.82	1
7263.646	1250.305	8.91	0.91	0.54	1
7267.645	1250.993	9.35	1.16	0.87	1
7522.885	1294.928	9.31	1.14	0.84	1

IX CAS

J.D.	CYCLES	V	B-V	U-B	RF
6784.936	742.635	11.18	0.57	0.54	3
6786.979	742.859	11.44	0.75	0.39	3
6787.969	742.967	11.56	0.87		3
6791.974	743.405	11.44	0.55	0.33	3
6792.906	743.507	11.26	0.57	0.35	3
6793.937	743.620	11.27	0.58	0.35	3
6806.892	745.038	11.68	0.89	0.51	3
6807.883	745.147	11.68	0.81	0.63	3
6809.880	745.365	11.51	0.56	0.47	3
6810.911	745.478	11.30	0.58	0.34	3
6811.890	745.585	11.25	0.53	0.44	3
6812.877	745.693	11.34	0.65	0.47	3
6813.870	745.802	11.45	0.69	0.50	3
6816.835	746.126	11.74	0.83	0.50	3
6830.872	747.663	11.18	0.55		4
6832.854	747.880	11.48	0.72		4
6833.809	747.984	11.60	0.77		4
6837.682	748.408	11.39	0.57		4
6843.753	749.073	11.66	0.81		4
6847.723	749.507	11.22	0.52		4
6849.778	749.732	11.38	0.62	0.38	3
6866.725	751.587	11.27	0.56		4
6867.935	751.720	11.35	0.65		4
6869.744	751.918	11.58	0.78		4
6876.776	752.687	11.29	0.59		4
6879.708	753.008	11.66	0.84		4
6941.603	759.783	11.32	0.64		4
6948.597	760.548	11.22	0.56		4
6951.627	760.880	11.45	0.71		4
6953.616	761.098	11.71	0.76		4
6954.619	761.207	11.72	0.69		4
6955.615	761.316	11.58	0.63		4
6972.592	763.175	11.70	0.72		4
6978.586	763.831	11.44	0.73		4
6982.592	764.269	11.59	0.65		4
6983.585	764.378	11.45	0.56		4
7159.935	783.680	11.19	0.56	0.36	1
7162.885	784.003	11.12	1.07	0.81	1
7191.894	787.176	11.68	0.77	0.50	1
7206.811	788.811	11.14	1.07	0.79	1
7220.755	790.337	11.65	0.96	0.42	1

TABLE 1 (continued)

IX CAS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7261.633	794.811	11.12	1.15	0.83	1
7263.615	795.028	11.21	1.06	0.85	1

V CEN

J.D.	CYCLES	V	B-V	U-B	RF
4513.442	821.527	6.66	0.82		7
4519.457	822.621	6.80	0.89		7
4529.470	824.444	6.50	0.70		7
4578.300	833.332	6.48	0.66		7
4847.437	882.320	6.49	0.71		-7
4869.497	886.335	6.48	0.68		7
4886.528	889.435	6.57	0.67		7
5161.555	939.495	6.57	0.80	0.50	5
5163.606	939.868	7.00	1.03	0.75	5
5166.612	940.415	6.43	0.73	0.47	5
5167.640	940.602	6.70	0.91	0.61	5
5176.577	942.229	6.87	0.88	0.58	5
5177.569	942.409	6.44	0.72	0.44	5
5184.578	943.685	6.83	0.96	0.67	5
5185.645	943.879	7.01	1.04	0.74	5
5186.586	944.051	7.17	1.09	0.81	5
5188.553	944.409	6.43	0.72	0.43	5
5195.590	945.690	6.80	0.95	0.67	5
5201.535	946.772	6.90	1.00	0.70	5
5204.578	947.326	6.44	0.69	0.41	5
5205.551	947.503	6.58	0.81	0.51	5
5208.590	948.056	7.17	1.08	0.80	5
5236.488	953.134	7.17	1.04	0.75	5
5238.521	953.504	6.58	0.81	0.52	5
5241.494	954.045	7.17	1.07	0.78	5
5243.543	954.418	6.45	0.73	0.44	5
5245.499	954.774	6.91	1.00	0.72	5
5246.494	954.955	7.10	1.06	0.77	5
5281.360	961.301	6.52	0.72		7
5286.315	962.203	7.03	0.94		7
5302.252	965.104	7.24	1.11		7

TX CEN

J.D.	CYCLES	V	B-V	U-B	RF
4562.327	265.903	10.90	2.05		7
4564.349	267.021	11.12	2.09		-7
4568.305	267.252	10.73	1.85		7
4569.379	267.315	10.63	1.72		7
4570.361	267.373	9.91	1.40		7
4572.336	267.488	10.11	1.56		7
4929.414	288.378	9.94	1.41		7
4930.358	288.433	10.00	1.50		7
5163.612	302.079	11.09	2.04		5
5165.579	302.194	10.92	1.76	1.35	-5
5166.586	302.253	10.73	1.70	1.45	-5
5167.571	302.310	10.73	1.68	1.18	-5
5184.559	303.304	10.69	1.61	1.14	-5
5185.653	303.368	9.94	1.36	1.02	5
5186.590	303.423	9.94	1.45	1.03	5
5195.595	303.950	10.93	1.96	1.26	-5

TX CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5241.498	306.635	10.35	1.73	1.36	-5
5242.510	306.694	10.44	1.76	1.48	-5
5243.547	306.755	10.55	1.84	1.59	-5
5244.507	306.811	10.68	1.89	1.49	-5
5245.495	306.869	10.78	1.91	1.69	-5
5246.502	306.928	10.91	1.95	1.45	-5
5250.523	307.163	10.95	1.91	1.37	-5
5251.485	307.219	10.86	1.91		7
5256.475	307.511	10.12	1.50	1.19	-5
5257.432	307.567	10.20	1.67	1.18	-5
5270.402	308.326	10.61	1.61	1.27	-5
5273.306	308.496	10.09	1.52	1.16	6
5274.308	308.555	10.22	1.61	1.27	6
5275.334	308.615	10.27	1.70	1.41	6
5276.320	308.672	10.38	1.75	1.50	6
5281.402	308.970	11.01	2.07		7
5285.340	309.200	10.91	1.93		7
5286.325	309.258	10.80	1.84		7
5308.347	310.546	10.18	1.63		7
5358.220	313.464	10.07	1.51		7

UZ CEN

J.D.	CYCLES	V	B-V	U-B	RF
4517.415	1354.799	8.55	0.64		7
4574.269	1371.850	8.53	0.66		7
4834.477	1449.888	8.36	0.60		7
4847.375	1453.756	8.69	0.71		7
4907.331	1471.737	8.40	0.58		7
4917.392	1474.755	8.54	0.65		7
4921.367	1475.947	8.44	0.63		7
5163.510	1548.567	9.07	0.91	0.62	5
5169.504	1550.364	8.90	0.87	0.61	5
5177.482	1552.757	8.61	0.67	0.43	5
5201.449	1559.945	8.40	0.63	0.37	5
5208.508	1562.062	8.58	0.76	0.46	5
5236.388	1570.423	9.04	0.88	0.60	5
5238.438	1571.038	8.73	0.77	0.54	5
5243.406	1572.528	9.04	0.83	0.56	5
5246.402	1573.427	8.99	0.83	0.61	5
5256.410	1576.428	8.89	0.88	0.58	5
5257.369	1576.716	8.85	0.80	0.50	5
5292.314	1587.196	8.85	0.89	0.62	5
5304.222	1590.767	8.60	0.71	0.39	6
5567.517	1669.731	8.59	0.65		7
5573.552	1671.541	9.14	0.92		7
5574.391	1671.792	8.39	0.60		-7
5580.397	1673.594	9.12	0.94		7
5608.600	1681.992	8.68	0.73		7
5609.419	1682.298	8.95	0.84		7
5611.440	1682.904	8.41	0.59		7
5616.370	1684.382	9.08	0.89		7

VW CEN

J.D.	CYCLES	V	B-V	U-B	RF
4561.346	303.358	10.65	1.67		7

TABLE 1 (continued)

VW CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4563.398	303.495	10.54	1.50		7
4567.318	303.755	9.79	1.12		7
4570.319	303.955	10.13	1.45		7
4580.313	304.620	10.18	1.25		7
4867.472	323.717	9.74	1.08		7
4869.485	323.851	9.99	1.30		7
4898.442	325.777	9.94	1.27		7
5163.551	343.408	10.61	1.56	1.18	-5
5165.560	343.542	10.43	1.30	1.02	-5
5166.554	343.608	10.25	1.28	0.97	-5
5167.544	343.674	9.69	0.98	0.70	5
5184.535	344.804	9.84	1.18	0.93	5
5185.615	344.876	9.98	1.33	1.12	-5
5186.555	344.938	10.09	1.40	1.15	-5
5188.520	345.069	10.25	1.47	1.24	-5
5189.583	345.140	10.68	1.65	1.18	-5
5195.559	345.537	10.34	1.36	1.07	-5
5217.431	346.992	10.21	1.45	1.28	6
5241.463	348.590	10.30	1.36	1.04	-5
5242.498	348.659	9.71	1.06	0.74	5
5243.514	348.727	9.79	1.07	0.75	5
5244.696	348.792	9.81	1.12	0.91	5
5245.482	348.857	9.88	1.29	0.98	5
5246.467	348.923	9.98	1.36	1.11	-5
5250.512	349.192	10.49	1.62	1.25	-5
5256.461	349.588	10.30	1.34	0.99	-5
5257.410	349.651	9.76	1.07	0.74	5
5273.290	350.707	9.71	1.07	0.79	6
5302.242	352.632	10.04	1.18		7
5303.302	352.703	9.78	1.09		-7
5311.220	353.229	10.58	1.62	1.48	6

XX CEN

J.D.	CYCLES	V	B-V	U-B	RF
4517.476	412.324	7.58	0.90		7
4529.460	413.418	7.68	0.98		7
4847.426	442.440	7.73	1.06		-7
4889.440	446.274	7.42	0.79		7
4898.424	447.094	7.46	0.80		-7
4901.603	447.385	7.63	1.00		7
4922.364	449.279	7.46	0.77		7
4922.446	449.287	7.45	0.82		7
5161.535	471.109	7.69	0.90	0.61	5
5163.586	471.297	7.51	0.86	0.57	5
5176.562	472.481	7.76	1.07	0.83	5
5177.548	472.571	7.93	1.14	0.94	5
5179.554	472.754	8.22	1.23	0.95	5
5184.565	473.211	7.31	0.76	0.48	5
5185.629	473.309	7.51	0.90	0.60	5
5186.567	473.394	7.66	0.99	0.70	5
5188.536	473.574	7.95	1.15	0.90	5
5195.571	474.216	7.31	0.75	0.46	5
5201.517	474.759	8.23	1.24	0.98	5
5204.567	475.037	7.76	0.94	0.65	5
5205.534	475.125	7.66	0.89	0.60	5
5208.576	475.403	7.68	0.99	0.71	5

XX CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5236.472	477.949	7.98	1.06	0.76	5
5238.505	478.135	7.65	0.89	0.58	5
5241.479	478.406	7.68	1.01	0.73	5
5243.525	478.593	7.98	1.19	0.92	5
5246.477	478.862	8.17	1.16	0.89	5
5257.415	479.861	8.15	1.16	0.86	5
5282.336	482.135	7.68	0.88		7
5310.229	484.681	8.21	1.22	0.84	6
5349.230	488.241	7.35	0.75		7
5359.224	489.153	7.60	0.85		7
5567.541	508.167	7.56	0.82		7
5621.416	513.084	7.76	0.94		-7
5643.282	515.080	7.76	0.90		7
5644.227	515.166	7.52	0.83		7

AY CEN

J.D.	CYCLES	V	B-V	U-B	RF
4520.390	851.336	8.73	0.99		7
4546.307	856.219	8.60	0.88		7
4580.247	862.611	9.06	1.08		-7
4588.251	864.118	8.58	0.87		7
4834.456	910.487	8.85	1.07		-7
4865.478	916.329	8.73	0.98		7
4917.384	926.105	8.62	0.87		7
5163.498	972.456	8.62	1.07	0.80	5
5166.473	973.016	8.72	0.96	0.65	5
5167.518	973.213	8.58	0.92	0.43	5
5188.437	977.153	8.51	0.88	0.58	5
5189.512	977.355	8.77	1.02	0.76	5
5224.494	983.944	8.97	1.06		7
5243.383	987.501	8.67	1.09	0.83	5
5244.444	987.701	9.01	1.14	0.91	5
5245.417	987.884	9.06	1.09	0.81	5
5246.382	988.066	8.62	0.90	0.60	5
5306.211	999.334	8.70	1.01	0.68	6
5309.220	999.900	9.05	1.12	0.82	6
5309.240	999.904	9.09	1.13		7
5315.230	1001.032	8.76	0.93		7

AZ CEN

J.D.	CYCLES	V	B-V	U-B	RF
4521.337	1407.350	8.80	0.72		7
4533.387	1411.101	8.59	0.66		7
4978.272	1425.072	8.61	0.69		7
4835.522	1505.146	8.63	0.67		7
4890.429	1522.237	8.72	0.77		7
4925.299	1533.091	8.64	0.71		7
5161.492	1606.610	8.65	0.72	0.45	5
5169.476	1609.095	8.56	0.70	0.46	5
5176.467	1611.271	8.70	0.78	0.51	5
5177.465	1611.582	8.68	0.72	0.49	5
5179.468	1612.206	8.69	0.75	0.48	5
5188.545	1615.031	8.56	0.63		7
5194.586	1616.905	8.50	0.61		7
5201.438	1619.044	8.52	0.68	0.43	5

TABLE 1 (continued)

AZ CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5208.494	1621.240	8.65	0.78	0.52	5
5223.462	1625.899	8.47	0.60		7
5236.375	1629.919	8.50	0.58	0.31	5
5238.425	1630.557	8.74	0.72	0.45	5
5243.387	1632.101	8.55	0.71	0.45	5
5246.391	1633.037	8.52	0.67	0.41	5
5250.424	1634.292	8.70	0.78	0.52	5
5256.397	1636.151	8.59	0.74	0.47	5
5292.309	1647.329	8.74	0.79	0.52	5
5306.215	1651.658	8.63	0.70	0.38	6
5573.542	1734.868	8.48	0.62		7
5608.389	1745.715	8.57	0.64		7
5611.430	1746.662	8.67	0.67		7
5630.322	1752.542	8.77	0.76		-7

BB CEN

J.D.	CYCLES	V	B-V	U-B	RF
4513.403	1129.096	10.06	0.95		7
4517.436	1130.105	10.01	0.92		7
4521.363	1131.087	10.07	0.93		7
4530.420	1133.353	9.89	0.90		7
4885.436	1222.166	9.98	0.91		7
5166.501	1292.478	10.10	0.96	0.67	5
5186.525	1297.488	10.08	0.98	0.66	5
5188.480	1297.977	10.33	0.95	0.69	5
5189.549	1298.244	9.93	0.87	0.54	5
5242.468	1311.483	10.10	0.90	0.67	5
5243.438	1311.725	10.37	1.02	0.75	5
5245.445	1312.227	9.96	0.86	0.59	5
5247.429	1312.724	10.23	1.08	0.80	5
5257.378	1315.213	9.96	0.86	0.54	5
5273.272	1319.189	9.91	0.91	0.59	6

BK CEN

J.D.	CYCLES	V	B-V	U-B	RF
5165.512	1627.461	9.88	0.86	0.57	5
5188.461	1634.691	10.19	1.01	0.70	5
5189.530	1635.028	10.08	0.96	0.67	5
5195.520	1636.915	10.30	1.05	0.75	5
5201.460	1638.787	10.17	1.02	0.72	5
5208.521	1641.011	10.12	0.91	0.63	5
5236.408	1649.798	10.34	1.04	0.80	5
5238.451	1650.441	9.97	0.88	0.60	5
5242.457	1651.703	10.28	1.04	0.79	5
5243.422	1652.007	10.01	0.88	0.58	5
5247.440	1653.273	9.73	0.70	0.43	5
5250.452	1654.222	9.79	0.81	0.50	5
5272.222	1661.081	9.75	0.72	0.46	6
5273.246	1661.404	10.10	0.92	0.59	6
5274.283	1661.731	10.35	0.97	0.62	6

KK CEN

J.D.	CYCLES	V	B-V	U-B	RF
4512.392	370.466	10.91	1.03		7
4513.393	370.549	11.10	1.16		7

KK CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4865.497	399.456	11.02	1.06		7
4890.440	401.504	10.92	1.12		7
5194.580	426.474	11.00	1.04		7
5220.488	428.847	11.61	1.49		7
5251.409	431.140	11.91	1.52		7
5281.314	433.595	11.16	1.21		7
5286.260	434.001	11.91	1.60		7
5303.262	435.397	11.42	1.29		7

KN CEN

J.D.	CYCLES	V	B-V	U-B	RF
4561.366	134.083	10.27	1.80		7
4567.331	134.258	10.00	1.60		7
4569.341	134.317	9.44	1.40		7
4573.347	134.435	9.50	1.48		7
4947.260	145.426	9.41	1.46		7
5163.565	151.785	10.00	1.68	1.28	-5
5165.565	151.844	10.06	1.71	1.20	-5
5166.560	151.873	10.11	1.78	1.37	-5
5167.555	151.902	10.15	1.73	1.28	-5
5184.546	152.402	9.31	1.38	1.01	5
5185.620	152.433	9.38	1.43	1.05	5
5186.562	152.461	9.43	1.48	1.11	5
5188.526	152.519	9.54	1.55	1.18	5
5189.588	152.550	9.80	1.61	1.10	5
5195.568	152.726	9.87	1.71	1.21	-5
5241.473	154.075	10.26	1.69	1.18	-5
5242.502	154.105	10.30	1.66	1.16	-5
5243.517	154.135	10.37	1.68	0.97	-5
5244.503	154.164	10.33	1.66	1.21	-5
5245.489	154.193	10.27	1.66	1.14	-5
5246.472	154.222	10.25	1.63	1.15	-5
5250.517	154.341	9.32	1.31	0.90	5
5251.473	154.369	9.32	1.39		7
5253.326	154.423	9.38	1.46		7
5256.467	154.516	9.53	1.57	1.11	5
5273.296	155.010	10.26	1.71	1.13	6
5274.299	155.040	10.30	1.74	1.14	6
5275.328	155.070	10.31	1.70	1.06	6
5276.314	155.099	10.33	1.70	1.08	6
5286.293	155.392	9.36	1.43		7

KZ CEN

J.D.	CYCLES	V	B-V	U-B	RF
5166.509	3399.182	11.85	0.40	0.19	-5
5185.554	3411.713	12.69	0.35	0.09	-5
5216.395	3432.004	12.19	0.38	0.14	6
5217.406	3432.669	12.75	0.63	0.24	6
5223.382	3436.601	12.65	0.61	0.25	6
5241.413	3448.464	12.56	0.55	0.30	-5
5243.447	3449.802	12.73	0.74	0.48	-5
5244.472	3450.476	12.56	0.57	0.26	-5
5245.456	3451.124	11.79	0.30	0.04	5
5270.379	3467.521	12.55	0.64	0.43	-5

TABLE 1 (continued)

MY CEN

J.D.	CYCLES	V	B-V	U-B	RF
4568.284	1228.492	11.61	1.60		7
4572.295	1229.571	11.75	1.66		7
4575.356	1230.394	11.74	1.61		7
4576.314	1230.652	11.97	1.71		-7
4869.473	1309.487	11.68	1.53		7
4929.371	1325.595	11.79	1.68		7
5281.345	1420.247	12.23	1.84		7
5285.320	1421.316	12.09	1.78		7
5303.288	1426.148	12.43	1.91		-7

OO CEN

J.D.	CYCLES	V	B-V	U-B	RF
4530.467	351.701	11.65	1.63		7
4916.364	381.658	11.62	1.73		-7
4950.275	384.290	12.23	2.05		7
4952.281	384.446	12.04	2.01		7
4953.263	384.522	11.77	1.86		7
5328.237	413.632	11.63	1.68		7
5573.568	432.677	11.68	1.79		7
5574.423	432.743	11.70	2.06		-7
5611.503	435.622	11.48	1.72		7
5623.344	436.541	11.67	1.75		7

339 CEN

J.D.	CYCLES	V	B-V	U-B	RF
4562.317	481.908	9.01	1.42		7
4563.412	482.023	9.13	1.40		7
4567.373	482.442	8.51	1.10		7
4568.236	482.539	8.50	1.17		7
4569.370	482.653	8.65	1.24		7
4576.325	483.387	8.60	1.13		7
4889.449	516.462	8.46	1.07		7
4917.455	519.420	8.49	1.11		7
5161.550	545.203	8.67	1.15	0.83	5
5163.572	545.417	8.50	1.09	0.74	5
5165.575	545.629	8.60	1.18	0.90	5
5166.574	545.734	8.70	1.29	1.01	5
5167.564	545.839	8.91	1.34	1.03	5
5177.561	546.895	8.95	1.37	1.13	5
5184.550	547.633	8.60	1.18	0.89	5
5185.641	547.748	8.71	1.30	0.99	5
5186.578	547.847	8.80	1.37	1.05	5
5188.548	548.055	8.93	1.31	0.97	5
5195.583	548.798	8.81	1.32	1.01	5
5201.528	549.426	8.46	1.08	0.74	5
5205.546	549.851	8.89	1.35	1.04	5
5208.586	550.172	8.71	1.18	0.84	5
5236.464	553.119	8.80	1.21	0.93	5
5238.513	553.333	8.54	1.11	0.78	5
5241.490	553.647	8.60	1.20	0.90	5
5243.534	553.863	8.88	1.37	1.07	5
5246.489	554.175	8.71	1.18	0.85	5
5257.427	555.331	8.52	1.10	0.78	5
5306.240	560.487	8.37	1.07	0.71	6

378 CEN

J.D.	CYCLES	V	B-V	U-B	RF
4521.393	699.982	8.65	1.07		7
4522.356	700.131	8.34	0.93		7
4529.453	701.230	8.28	0.94		7
4572.305	707.864	8.66	1.14		7
4588.305	710.341	8.39	0.97		7
4916.356	761.128	8.37	0.95		7
4930.340	763.294	8.33	0.96		7
4936.273	764.212	8.32	0.94		7
5161.530	799.085	8.38	0.97	0.65	5
5169.562	800.329	8.32	0.97	0.65	5
5176.557	801.412	8.35	0.99	0.70	5
5177.544	801.564	8.47	1.06	0.78	5
5179.542	801.874	8.64	1.09	0.81	5
5185.607	802.813	8.61	1.12	0.79	5
5195.555	804.353	8.33	0.98	0.66	5
5201.512	805.275	8.29	0.95	0.63	5
5204.562	805.747	8.59	1.10	0.81	5
5205.526	805.896	8.62	1.11	0.81	5
5208.565	806.367	8.34	0.99	0.66	5
5236.464	810.686	8.56	1.11	0.80	5
5238.497	811.001	8.51	1.04	0.72	5
5241.459	811.459	8.40	1.03	0.70	5
5243.509	811.777	8.61	1.11	0.80	5
5246.458	812.233	8.27	0.94	0.63	5
5256.457	813.781	8.60	1.12	0.81	5
5306.230	821.487	8.42	1.04	0.67	6
5310.225	822.105	8.27	0.97	0.63	6

381 CEN

J.D.	CYCLES	V	B-V	U-B	RF
4520.456	890.067	7.48	0.66		7
4521.411	890.255	7.47	0.68		7
4546.333	895.162	7.35	0.61		7
4886.520	962.145	7.34	0.60		7
4932.291	971.157	7.36	0.63		7
5161.582	1016.304	7.50	0.77	0.51	5
5163.590	1016.699	7.94	0.97	0.70	5
5166.619	1017.295	7.45	0.74	0.51	5
5176.572	1019.255	7.42	0.70	0.44	5
5177.556	1019.449	7.66	0.36	0.61	5
5179.559	1019.843	8.00	0.99	0.69	5
5184.575	1020.831	7.99	0.98	0.72	5
5185.634	1021.039	7.53	0.73	0.43	5
5186.574	1021.224	7.36	0.69	0.42	5
5188.541	1021.612	7.81	0.95	0.69	5
5195.579	1022.998	7.72	0.81	0.51	5
5201.525	1024.168	7.31	0.64	0.37	5
5204.573	1024.769	7.95	0.98	0.72	5
5205.538	1024.958	7.87	0.88	0.59	5
5208.580	1025.557	7.79	0.92	0.66	5
5236.476	1031.050	7.49	0.70	0.43	5
5238.509	1031.450	7.67	0.89	0.60	5
5241.482	1032.036	7.55	0.73	0.44	5
5243.529	1032.439	7.65	0.86	0.59	5
5246.485	1033.021	7.62	0.75	0.47	5
5257.423	1035.174	7.28	0.64	0.37	5

TABLE 1 (continued)

419 CEN

J.D.	CYCLES	V	B-V	U-B	RF
4585.243	832.551	8.35	0.86		7
4586.268	832.737	8.12	0.75		7
4587.206	832.908	8.10	0.72		7
4588.259	833.099	8.22	0.80		7
4865.487	883.436	8.35	0.83		7
4895.415	888.870	8.04	0.71		7
4906.408	890.866	8.14	0.76		7
4934.220	895.916	8.06	0.71		7
5161.499	937.183	8.21	0.83	0.58	5
5169.488	938.634	8.21	0.79	0.54	5
5176.473	939.902	7.99	0.71	0.47	5
5177.474	940.084	8.13	0.78	0.54	5
5179.476	940.447	8.33	0.85	0.58	5
5201.441	944.436	8.31	0.87	0.61	5
5209.504	945.718	8.08	0.74	0.48	5
5236.363	950.780	8.02	0.68	0.45	5
5238.434	951.152	8.19	0.82	0.58	5
5243.395	952.053	8.11	0.78	0.51	5
5246.395	952.598	8.25	0.82	0.54	5
5257.356	954.588	8.24	0.82	0.56	5
5311.207	964.366	8.28	0.88	0.57	6

420 CEN

J.D.	CYCLES	V	B-V	U-B	RF
4565.315	184.325	10.07	0.82		7
4585.247	185.129	9.74	0.78		7
4587.21[illegible]	185.209	9.84	0.79		7
4588.269	185.251	9.87	0.81		7
4834.468	195.192	9.80	0.76		-7
4835.533	[illegible].235	9.85	0.80		7
4886.437	[illegible].290	10.00	0.85		7
4895.424	[illegible].653	10.42	0.80		7
4896.382	[illegible].691	10.36	0.72		7
4914.395	198.417	10.20	0.91		7
4916.288	198.495	10.39	0.89		7
4918.324	198.577	10.41	0.87		7
4919.359	198.620	10.43	0.82		7
4920.354	198.659	10.40	0.78		7
4921.356	198.700	10.31	0.72		7
492[illegible].336	198.820	9.53	0.51		7
5166.479	208.597	10.47	0.82	0.57	5
5169.495	208.718	9.85	0.56	0.28	5
5184.481	209.323	10.31	1.01	0.70	5
5188.446	209.484	10.58	0.92	0.74	5
5189.518	209.527	10.62	1.00	0.68	5
5195.507	209.769	9.50	0.36	0.22	5
5217.364	210.651	10.31	0.78	0.38	6
5223.473	210.898	9.59	0.61		7
5224.507	210.940	9.66	0.67		7
5243.399	211.702	9.75	0.55	0.27	5
5244.451	211.745	9.41	0.48	0.22	5
5245.421	211.784	9.39	0.46	0.21	5
5250.430	211.986	9.73	0.79	0.47	5
5256.402	212.227	10.04	0.96	0.69	5
5257.361	212.266	10.17	0.97	0.69	5
5273.229	212.907	9.59	0.68	0.38	6

420 CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5274.268	212.949	9.66	0.70	0.38	6
5275.275	212.989	9.69	0.73	0.47	6
5276.258	213.029	9.73	0.78	0.46	6

496 CEN

J.D.	CYCLES	V	B-V	U-B	RF
4513.434	1020.186	9.69	1.00		7
4517.465	1021.097	9.65	1.02		7
4522.345	1022.200	9.70	1.07		7
4530.457	1024.033	9.80	1.10		7
4867.459	1100.207	9.76	1.07		7
4929.358	1114.198	9.71	1.08		7
5163.546	1167.133	9.63	1.00	0.68	5
5165.551	1167.586	10.10	1.30	0.91	5
5166.544	1167.810	10.20	1.32	0.98	-5
5167.540	1168.035	9.80	1.09	0.72	5
5184.532	1171.876	10.21	1.31	0.97	-5
5185.604	1172.118	9.62	1.05	0.66	5
5186.552	1172.333	9.84	1.20	0.85	5
5188.516	1172.777	10.21	1.33	1.04	-5
5189.580	1173.017	10.02	1.18	0.84	5
5195.548	1174.366	9.88	1.19	0.88	5
5217.418	1179.309	9.80	1.16	0.79	6
5241.455	1184.743	10.17	1.32	0.96	5
5242.493	1184.977	9.99	1.19	0.84	5
5243.502	1185.205	9.69	1.09	0.72	5
5244.491	1185.429	9.98	1.27	1.00	5
5245.478	1185.652	10.12	1.32	0.92	5
5246.452	1185.872	10.23	1.31	0.96	-5
5250.499	1186.787	10.22	1.32	0.97	-5
5256.449	1188.132	9.62	1.02	0.68	5
5274.294	1192.165	9.63	1.04	0.70	6
5311.216	1200.511	9.98	1.27	0.91	6

8 CEP HD 213306

J.D.	CYCLES	V	B-V	U-B	RF
2762.774	515.952	4.29	0.80		8
2773.847	516.897	4.33	0.85		8
2779.990	518.042	3.91	0.68		8
3136.882	584.548	3.99	0.76		8
3137.837	584.726	4.21	0.86		8
3145.806	586.211	3.59	0.48		8
3146.830	586.401	3.82	0.64		8
3147.802	586.583	4.04	0.79		8
3148.854	586.779	4.27	0.86		8
3151.812	587.330	3.74	0.58		8
3152.854	587.524	3.96	0.74		8
3153.802	587.701	4.18	0.83		8
3154.892	587.904	4.35	0.84		8
3158.792	588.631	4.11	0.81		8
3159.826	588.823	4.28	0.86		8
3178.774	592.354	3.77	0.61		8
3179.753	592.537	3.98	0.74		8
3180.736	592.720	4.22	0.85		8
6825.638	1271.935	4.36	0.82		4
6825.820	1271.969	4.23	0.78		[illegible]

TABLE 1 (continued)

B CEP HD 213306 CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6827.616	1272.304	3.79	0.60		4
6827.835	1272.345	3.85	0.62		4
6828.795	1272.524	4.07	0.79		4
6829.770	1272.705	4.28	0.86		4
6832.754	1273.261	3.71	0.54		4
6837.602	1274.165	3.56	0.44		4
6843.668	1275.295	3.78	0.56		4
6846.657	1275.852	4.35	0.89		4
6847.656	1276.038	3.90	0.60		4
6848.638	1276.221	3.64	0.50		4
7134.873	1329.560	4.04	0.83	0.53	1
7143.933	1331.249	3.64	0.57	0.36	1
7144.895	1331.428	3.89	0.71	0.45	1
7147.904	1331.988	4.14	0.75	0.43	1
7188.770	1339.604	4.06	0.83	0.59	1
7189.746	1339.786	4.30	0.89	0.64	1
7191.808	1340.170	3.51	0.46	0.38	1
7213.726	1344.254	3.61	0.56	0.35	1
7214.715	1344.439	3.89	0.74	0.45	1
7228.732	1347.050	3.79	0.57	0.31	1
7233.758	1347.987	4.14	0.74	0.43	1
7236.686	1348.533	4.04	0.77	0.50	1
7237.687	1348.719	4.26	0.87	0.59	1
7239.710	1349.096	3.55	0.47	0.30	1
7515.915	1400.566	4.06	0.81	0.58	1
7517.887	1400.934	4.29	0.84	0.57	1
7521.944	1401.690	4.24	0.87	0.62	1
7522.876	1401.863	4.31	0.90	0.63	1
7523.845	1402.044	3.83	0.59	0.36	1
7592.754	1414.885	4.33	0.88	0.65	1

AK CEP

J.D.	CYCLES	V	B-V	U-B	RF
6796.815	939.789	11.53	1.43		2
6797.899	939.939	10.96	1.29		2
6807.874	941.318	11.15	1.38	0.93	2
6808.776	941.443	11.26	1.43	1.06	2
6809.724	941.574	11.41	1.47	1.12	2
6811.811	941.862	11.23	1.29	0.88	2
6812.759	941.993	10.86	1.15	0.85	2
6813.720	942.126	10.96	1.24	0.86	2
6817.735	942.681	11.50	1.51	1.18	2
6818.733	942.819	11.36	1.40	0.95	2
6831.767	944.622	11.50	1.48		4
6832.720	944.753	11.52	1.50		4
6833.633	944.880	11.13	1.30		4
6833.753	944.896	11.13	1.28	0.83	2
6834.781	945.038	10.90	1.16	0.77	2
6836.606	945.291	11.15	1.35		4
6836.693	945.303	11.15	1.35	1.00	2
6837.599	945.428	11.25	1.43		4
6837.849	945.462	11.34	1.44		4
6843.656	946.267	11.13	1.34		4
6846.654	946.680	11.50	1.48		4
6846.859	946.708	11.52	1.53	0.96	2
6847.654	946.818	11.36	1.40		4
6848.636	946.954	10.91	1.17		4

AK CEP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6848.677	946.960	10.86	1.17	0.85	2
6853.601	947.640	11.48	1.42		2
6856.680	948.066	10.87	1.22		2
6867.603	949.577	11.42	1.67		4
6869.588	949.851	11.25	1.31		4
6876.617	950.823	11.41	1.36		4
6879.588	951.234	11.10	1.30		4
6880.588	951.372	11.19	1.38		4
6943.559	960.079	10.94	1.22		4
6948.565	960.771	11.49	1.43		4
6951.594	961.190	11.02	1.29		4
6955.567	961.739	11.51	1.50		4
6972.572	964.090	10.93	1.24		4
7228.755	999.513	11.35	1.44	1.13	1
7233.765	1000.205	11.07	1.32	0.89	1

CP CEP

J.D.	CYCLES	V	B-V	U-B	RF
6830.605	382.541	10.90	1.96		4
6831.704	382.602	10.97	1.86		4
6831.747	382.605	10.99	1.92		4
6832.699	382.658	10.95	1.88		4
6833.622	382.710	10.85	1.78		4
6836.588	382.876	10.58	1.59		4
6837.586	382.932	10.29	1.45		4
6837.838	382.946	10.25	1.42		4
6843.650	383.271	10.53	1.74		4
6846.642	383.439	10.77	1.87		4
6847.640	383.495	10.85	1.91		4
6848.624	383.550	10.92	1.91		4
6867.590	384.612	10.94	1.86		4
6869.575	384.723	10.78	1.75		4
6876.582	385.115	10.32	1.55		4
6879.576	385.283	10.52	1.74		4
6880.579	385.339	10.59	1.80		4
6941.558	388.754	10.73	1.73		4
6942.551	388.810	10.74	1.65		4
6948.558	309.146	10.35	1.56		4
7521.904	421.255	10.59	1.70	1.48	1
7600.724	425.670	10.50	1.82	1.60	1
7601.618	425.720	10.82	1.76	1.45	1
7619.681	426.732	10.74	1.75	1.47	1
7635.614	427.624	10.91	1.90	1.71	1
7646.635	428.241	10.33	1.75	1.43	1
7647.643	428.298	10.49	1.70	1.52	1
7654.634	428.690	10.81	1.78	1.42	1
7655.624	428.705	10.73	1.70	1.36	1
7656.604	478.800	10.69	1.63	1.29	1
7661.627	429.081	10.20	1.51	1.15	1
7663.641	429.194	10.35	1.58	1.36	1

CR CEP

J.D.	CYCLES	V	B-V	U-B	RF
6772.917	1086.589	9.50	1.41		3
6773.890	1086.745	9.60	1.36		3

TABLE 1 (continued)

CR CEP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6774.875	1086.903	9.70	1.57		3
6777.967	1087.399	9.45	1.36	0.92	3
6785.957	1088.683	9.57	1.48	1.11	3
6787.868	1088.988	9.77	1.58	1.18	3
6789.971	1089.325	9.54	1.39	0.94	3
6806.791	1092.024	9.81	1.55	1.29	3
6807.777	1092.182	9.77	1.50	1.07	3
6808.783	1092.343	9.51	1.39	1.00	3
6809.778	1092.503	9.45	1.41	1.01	3
6810.783	1092.664	9.57	1.48	1.05	3
6811.778	1092.824	9.64	1.54	1.10	3
6812.781	1092.985	9.78	1.57	1.15	3
6813.774	1093.144	9.81	1.56	1.07	3
6814.790	1093.307	9.60	1.40	0.97	3
6815.749	1093.461	9.45	1.37	0.97	3
6816.774	1093.625	9.54	1.44	1.12	3
6817.737	1093.780	9.65	1.51	1.09	3
6819.766	1094.105	9.84	1.56	1.25	3
6825.655	1095.050	9.83	1.58		4
6825.845	1095.081	9.82	1.56		4
6826.843	1095.241	9.67	1.49		4
6827.636	1095.368	9.49	1.37		4
6827.850	1095.402	9.47	1.38		4
6829.788	1095.713	9.61	1.49		4
6830.792	1095.874	9.73	1.53		4
6831.782	1096.033	9.83	1.57		4
6832.790	1096.185	9.78	1.51		4
6833.638	1096.331	9.54	1.40		4
6837.615	1096.969	9.79	1.57		4
6837.855	1097.007	9.83	1.58		4
6843.683	1097.942	9.76	1.55		4
6845.702	1098.266	9.65	1.43	0.99	3
6846.668	1098.421	9.47	1.36		4
6846.740	1098.433	9.45	1.38	0.93	3
6847.666	1098.581	9.52	1.43		4
6848.652	1098.740	9.61	1.49		4
6849.736	1098.913	9.73	1.53	1.09	3
6866.602	1101.619	9.53	1.44		4
6867.609	1101.781	9.64	1.50		4
6869.594	1102.099	9.81	1.55		4
6876.624	1103.227	9.75	1.44		4
6879.595	1103.704	9.56	1.46		4
6880.600	1103.865	9.59	1.53		4
6940.606	1113.492	9.44	1.38		4
6953.568	1115.571	9.49	1.41		4
6971.577	1118.461	9.44	1.36		4
7134.883	1144.660	9.55	1.51	1.08	1
7147.919	1146.751	9.62	1.52	1.10	1
7160.787	1148.816	9.70	1.54	1.11	1
7162.794	1149.138	9.73	1.55	1.12	1
7178.863	1151.716	9.52	1.50	1.07	1
7183.838	1152.514	9.48	1.41	0.97	1
7191.833	1153.797	9.62	1.50	1.15	1
7198.880	1154.927	9.78	1.49	1.20	1
7202.829	1155.561	9.51	1.43	1.00	1
7203.810	1155.718	9.63	1.49	1.07	1
7205.829	1156.042	9.78	1.56	1.18	1

CR CEP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7228.763	1159.721	9.59	1.49	1.09	1
7233.771	1160.525	9.47	1.40	0.97	1
7241.740	1161.803	9.66	1.51	1.17	1
7251.681	1163.398	9.45	1.35	0.93	1
7253.645	1163.713	9.61	1.50	1.11	1
7267.610	1165.954	9.75	1.55	1.22	1
7275.585	1166.912	9.76	1.54	1.18	1
7515.938	1205.793	9.64	1.50	1.15	1

RY CMA

J.D.	CYCLES	V	B-V	U-B	RF
5161.301	1103.304	8.36	1.05	0.76	5
5164.316	1103.949	7.88	0.94	0.67	5
5166.319	1104.377	8.37	1.05	0.80	5
5176.318	1106.514	6.32	0.98	0.69	5
5177.307	1106.726	7.69	0.72	0.45	5
5187.357	1108.874	7.91	0.81		7
5194.349	1110.369	8.43	1.04		7
5195.282	1110.568	8.14	0.87	0.57	5
5201.265	1111.847	7.90	0.81	0.53	5
5208.250	1113.340	8.38	1.03	0.75	5
5209.251	1113.554	8.20	0.90	0.59	5
5223.241	1116.545	8.30	0.91		7
5224.279	1116.767	7.79	0.72		7
5238.230	1119.749	7.75	0.73	0.43	5
5242.225	1120.603	7.98	0.79	0.50	5
5245.203	1121.240	8.32	1.02	0.74	5
5248.201	1121.453	8.45	1.03	0.75	5
5256.208	1123.592	8.02	0.82	0.53	5
5532.419	1182.636	7.85	0.74		7
5555.366	1187.541	8.42	0.91		7
5612.214	1199.694	7.72	0.66		7
7623.946	1629.731	7.69	0.62	0.53	1
7635.906	1632.287	8.36	0.99	0.72	1
7648.924	1635.070	8.13	0.92	0.60	1
7653.812	1636.130	6.22	0.94	0.65	1
7654.858	1636.339	8.38	0.99	0.73	1
7656.747	1636.743	7.78	0.67	0.44	1
7660.834	1637.616	8.14	0.82	0.48	1
7661.779	1637.818	7.84	0.73	0.47	1
7663.786	1638.247	8.32	0.93	0.72	1

RZ CMA

J.D.	CYCLES	V	B-V	U-B	RF
5187.373	1219.124	9.77	1.10		7
5194.360	1220.766	9.43	0.93		7
5223.253	1227.557	9.81	1.04		7
5224.291	1227.801	9.46	0.94		7
5535.373	1300.910	9.58	1.03		7
5547.412	1303.740	9.40	0.90		7
5555.379	1305.612	9.57	0.95		7
5568.340	1308.658	9.45	0.89		7
5573.330	1309.831	9.51	0.96		7
7015.610	1648.792	9.46	0.94	0.55	1
7020.632	1649.972	9.66	1.06	0.64	1

TABLE I (continued)

RZ CMA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7022.620	1650.440	9.96	1.08	0.70	1
7023.642	1650.680	9.38	0.86	0.52	1
7600.939	1786.355	9.94	1.12	0.74	1
7601.907	1786.582	9.58	0.97	0.57	1
7623.960	1791.765	9.37	0.90	0.68	1
7635.916	1794.575	9.65	1.01	0.58	1
7648.931	1797.634	9.40	0.89	0.56	1
7653.890	1798.799	9.48	0.94	0.60	1
7654.865	1799.028	9.71	1.09	0.68	1
7656.755	1799.472	9.94	1.11	0.66	1
7660.841	1800.433	9.95	1.12	0.69	1
7661.785	1800.655	9.38	0.89	0.53	1
7663.793	1801.126	9.79	1.11	0.73	1

SS CMA

J.D.	CYCLES	V	B-V	U-B	RF
5164.332	417.759	9.27	1.02	0.70	5
5165.307	417.838	9.54	1.17	0.84	5
5166.325	417.920	9.74	1.24	0.96	5
5167.332	418.001	9.86	1.28	1.02	5
5195.297	420.264	10.34	1.46	1.13	-5
5209.270	421.394	10.33	1.42	1.05	-5
5238.241	423.737	9.42	1.00	0.65	5
5239.224	423.817	9.56	1.09	0.75	5
5242.234	424.060	9.99	1.38	1.02	5
5246.218	424.383	10.30	1.42	1.12	-5
5267.198	426.080	10.04	1.34	1.02	5

TV CMA

J.D.	CYCLES	V	B-V	U-B	RF
4811.378	1030.318	10.36	1.11		-7
5187.348	1110.829	10.88	1.38		7
5194.337	1112.325	10.34	1.15		7
5224.265	1118.734	10.82	1.38		7
5535.363	1185.353	10.35	1.16		7
5555.356	1189.635	10.70	1.35		7
5567.308	119[illegible].194	10.16	1.05		7
5573.316	11[illegible] 481	10.50	1.23		-7
5580.284	11[illegible] 973	10.91	1.36		7
6854.011	1467.731	10.80	1.39		2
6856.986	1468.368	10.42	1.18		2
6858.995	1468.796	10.86	1.34		2

TW CMA

J.D.	CYCLES	V	B-V	U-B	RF
5532.429	790.971	9.48	0.91		7
5535.383	791.393	9.51	1.04		7
5547.421	793.114	9.29	0.83		7
5555.393	794.254	9.47	1.01		-7
5573.335	796.819	9.89	1.13		7
5595.268	799.955	9.56	0.94		7
5627.193	804.519	9.63	1.11		7

TW CMA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6857.001	980.343	9.54	1.01		2
6859.006	980.631	9.78	1.12		2
7015.617	1003.022	9.35	0.86	0.49	1
7020.637	1003.740	9.88	1.16	0.83	1
7022.626	1004.024	9.37	0.84	0.49	1
7023.637	1004.169	9.35	0.85	0.57	1
7315.799	1045.939	9.58	0.98	0.56	1
7600.946	1086.706	9.85	1.14	0.86	1
7601.913	1086.845	9.85	1.13	0.79	1
7635.923	1091.707	9.86	1.18	0.85	1
7648.939	1093.568	9.65	1.10	0.74	1
7653.897	1094.277	9.44	0.94	0.63	1
7654.872	1094.416	9.48	1.07	0.66	1
7656.763	1094.687	9.81	1.14	0.82	1
7660.848	1095.271	9.43	0.95	0.63	1
7661.792	1095.406	9.50	1.02	0.67	1
7663.799	1095.692	9.80	1.16	0.85	1

VZ CMA

J.D.	CYCLES	V	B-V	U-B	RF
4811.356	1538.945	12.75	0.51		-7
4812.349	1539.262	12.48	0.61		7
5161.309	1650.879	9.45	1.05	0.71	5
5165.313	1652.160	9.51	1.11	0.74	5
5166.335	1652.487	9.16	0.92	0.63	5
5195.305	1661.753	9.29	0.97	0.65	5
5209.278	1666.223	9.54	1.04	0.71	5
5238.246	1675.488	9.22	0.90	0.62	5
5239.234	1675.804	9.35	1.00	0.67	5
5242.239	1676.765	9.30	0.97	0.65	5
5256.220	1681.237	9.52	1.04	0.69	5

Y COM

J.D.	CYCLES	V	B-V	U-B	RF
7014.722	161.518	12.61	1.29	0.98	1
7015.778	161.542	12.61	1.30	0.93	1
7020.779	161.657	12.59	1.34	1.05	1
7021.802	161.681	12.62	1.35	1.08	1
7022.808	161.704	12.64	1.36	1.15	1
7043.798	162.187	12.86	1.45	1.23	1
7044.704	162.208	12.86	1.40	1.20	1
7049.844	162.327	12.79	1.39	1.41	1
7050.772	162.348	12.83	1.44	1.17	1
7052.779	162.394	12.83	1.47	1.23	1
7054.740	162.439	12.90	1.47	1.24	1
7056.843	162.483	12.81	1.37	1.29	1
7057.679	162.507	12.94	1.41	1.28	1
7081.750	163.061	12.80	1.40	1.26	1
7083.712	163.106	12.80	1.43	1.19	1
7086.768	163.177	12.84	1.46	1.17	1
7087.645	163.197	12.82	1.44	1.10	1
7087.651	163.197	12.78	1.36	1.27	1
7091.722	163.291	12.74	1.24		1
7099.737	163.475	12.67	1.34	1.13	1

TABLE 1 (continued)

Y COM CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7100.683	163.497	12.69	1.34	1.04	1
7102.729	163.544	12.67	1.31	1.00	1
7131.639	164.210	12.93	1.42	1.38	1
7131.647	164.210	12.95	1.44	1.19	1
7459.683	171.763	12.84	1.32	1.01	1
7462.695	171.833	12.80	1.28	0.97	1

AL CRA

J.D.	CYCLES	V	B-V	U-B	RF
4563.554	267.500	11.57	1.00		7
4578.514	268.377	11.44	0.87		7
4579.470	268.433	11.44	0.92		7
5308.484	311.166	11.82	0.66		7
5309.357	311.217	11.73	0.62		7
5310.353	311.275	11.61	0.78		7
5328.308	312.328	11.50	0.79		7
5612.410	328.981	12.33	0.96		7
5624.573	329.624	12.53	1.15		-7
5626.554	329.810	12.47	1.26		7
5627.418	329.860	12.52	1.28		-7
5628.541	329.926	12.43	1.03		7
5629.487	329.982	12.29	0.88		7
5630.476	330.040	12.18	0.78		7
5631.381	330.093	12.00	0.73		7
5634.465	330.273	11.43	0.88		7
5636.440	330.382	11.48	0.94		7
5637.434	330.448	11.55	0.96		7
5638.466	330.508	11.67	1.03		7
5639.485	330.568	11.80	1.13		7
5642.531	330.746	12.58	1.28		7
5652.351	331.322	11.50	0.85		7
5657.461	331.621	12.09	1.06		7
5667.498	332.210	11.67	0.68		7
5668.436	332.265	11.52	0.73		7

KQ CRA

J.D.	CYCLES	V	B-V	U-B	RF
4562.546	147.560	12.34	1.07		7
4564.535	147.624	12.03	0.70		7
4573.422	147.911	11.92	1.07		7
4574.425	147.944	11.94	1.02		7
4576.445	148.009	12.07	1.19		7
4577.475	148.043	12.19	1.04		
4578.485	148.075	12.15	1.13		7
5281.472	170.811	11.92	0.92		7
5308.441	171.683	11.90	0.80		7
5309.341	171.712	12.18	0.80		7
5310.288	171.743	12.00	0.91		7
5567.571	180.064	12.22	1.02		7
5623.444	181.871	12.06	1.00		-7
5624.504	181.905	12.06	0.98		-7
5626.532	181.971	12.00	1.02		7
5627.395	181.999	11.98	1.13		7
5628.497	182.034	12.41	0.88		-7

KQ CRA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5629.463	182.065	12.55	1.15		-7
5630.366	182.095	12.31	1.19		-7
5631.356	182.127	12.16	1.21		7
5634.444	182.227	12.79	1.09		7
5636.417	182.290	12.53	1.42		7
5638.437	182.356	13.18	1.16		7
5639.462	182.389	12.93	1.11		-7
5652.328	182.805	11.99	0.85		-7
5655.427	182.905	12.10	0.81		-7
5664.227	183.190	11.87	1.16		-7
5668.424	183.326	12.44	1.19		-7

347 CRA

J.D.	CYCLES	V	B-V	U-B	RF
4563.541	297.280	12.27	0.81		7
4564.572	297.347	12.51	0.75		7
4575.527	298.061	12.51	0.76		7
4930.472	321.183	12.27	0.79		-7
5328.291	347.097	12.24	0.73		7
5343.235	348.071	12.28	0.71		-7
5624.546	366.396	12.58	0.92		-7

R CRU

J.D.	CYCLES	V	B-V	U-B	RF
3776.185	648.189	6.70	0.79		9
3776.986	648.326	6.84	0.89		9
3825.955	656.732	7.13	0.69		9
3855.885	661.869	6.62	0.65		9
4520.444	775.942	6.43	0.61		7
4527.091	777.083	6.61	0.68		9
4532.415	777.997	6.49	0.63		7
4544.007	779.987	6.46	0.61		9
4558.015	782.391	6.92	0.91		9
4561.008	782.905	6.43	0.58		9
4825.947	828.382	7.11	0.99		9
4833.129	829.615	7.17	1.01		9
4834.148	829.790	6.92	0.80		9
4845.062	831.663	7.26	1.00		9
4847.392	832.063	6.51	0.68		7
4848.058	832.178	6.68	0.80		9
4873.053	836.468	7.04	0.95		9
4886.467	838.771	7.01	0.84		7
4916.338	843.898	6.46	0.58		7
4917.994	844.182	6.71	0.80		9
4920.987	844.696	7.20	0.95		9
4922.312	844.923	6.42	0.58		7
4925.015	845.387	6.93	0.92		9
4927.020	845.732	7.12	0.93		9
4928.059	845.910	6.44	0.57		9
4949.984	849.673	7.25	1.01		9
4950.963	849.841	6.72	0.69		9
4952.963	850.185	6.73	0.81		9
4953.928	850.350	6.85	0.91		9
5169.527	887.358	6.85	0.91	0.66	5

TABLE 1 (continued)

R CRU CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5176.505	886.556	7.07	0.99	0.73	5
5177.510	888.729	7.07	0.94	0.67	5
5179.509	889.072	6.52	0.71	0.47	5
5201.484	892.844	6.61	0.70	0.44	5
5205.498	893.533	7.05	0.99	0.72	5
5208.540	894.055	6.49	0.72	0.45	5
5216.404	895.405	6.93	0.92	0.63	6
5236.430	898.842	6.63	0.72	0.45	5
5238.470	899.192	6.70	0.79	0.54	5
5243.470	900.051	6.48	0.71	0.45	5
5246.421	900.557	7.07	1.00	0.74	5

S CRU

J.D.	CYCLES	V	B-V	U-B	RF
4587.270	97[illegible].92	6.94	0.96		7
4588.297	978.311	6.75	0.81		7
4847.418	1033.560	6.32	0.67		7
4907.362	1046.341	6.51	0.70		7
4908.262	1046.533	6.28	0.63		7
4931.291	1051.443	6.22	0.58		7
5169.558	1102.246	6.88	0.91	0.63	5
5176.547	1103.736	6.55	0.82	0.56	5
5177.534	1103.947	6.76	0.93	0.67	5
5179.538	1104.374	6.40	0.67	0.41	5
5185.595	1105.656	6.47	0.77	0.49	5
5201.506	1109.058	6.86	0.95	0.69	5
5204.556	1109.709	6.49	0.81	0.54	5
5205.523	1109.915	6.74	0.92	0.65	5
5208.563	1110.563	6.32	0.69	0.42	5
5236.460	1116.511	6.23	0.63	0.37	5
5238.493	1116.945	6.76	0.94	0.66	5
5241.448	1117.575	6.32	0.69	0.42	5
5243.498	1118.012	6.81	0.94	0.68	5
5246.448	1118.641	6.42	0.76	0.49	5
5250.494	1119.503	6.25	0.64	0.37	5
5273.283	1124.362	6.42	0.68	0.36	6
5282.325	1126.290	6.80	0.84		7
5348.237	1140.344	6.56	0.68		7
5358.200	1142.468	6.28	0.57		7

T CRU

J.D.	CYCLES	V	B-V	U-B	RF
3776.183	560.829	6.60	0.99		9
3777.186	560.978	6.73	1.05		9
3852.950	572.230	6.70	0.96		9
3855.891	572.667	6.49	0.91		9
4513.410	670.320	6.56	0.88		7
4520.433	671.363	6.47	0.81		7
4521.386	671.504	6.40	0.79		7
4527.096	672.352	6.52	0.83		9
4534.412	673.439	6.35	0.76		7
4544.015	674.865	6.66	1.02		9
4558.620	676.943	6.70	1.07		9
4561.003	677.388	6.44	0.79		9
4833.119	717.602	6.61	1.01		9

T CRU CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4834.158	717.956	6.73	1.05		9
4845.069	719.577	6.45	0.87		9
4848.054	720.020	6.76	1.04		9
4873.045	723.732	6.56	0.95		9
4917.999	730.408	6.40	0.81		9
4920.992	730.853	6.67	1.00		9
4925.008	731.449	6.40	0.80		9
4925.352	731.500	6.36	0.79		7
4925.949	731.589	6.47	0.89		9
4927.017	731.748	6.56	0.94		9
4931.231	732.373	6.44	0.83		-7
4949.992	735.160	6.84	1.04		9
4950.967	735.305	6.60	0.86		9
4952.969	735.602	6.47	0.88		9
4953.934	735.745	6.58	0.97		9
5161.517	766.575	6.41	0.88	0.61	5
5176.500	768.800	6.56	0.98	0.73	5
5177.506	768.950	6.70	1.05	0.82	5
5179.500	769.246	6.65	0.95	0.69	5
5188.557	770.591	6.46	0.86		7
5194.592	771.487	6.39	0.81		7
5201.481	772.510	6.34	0.83	0.57	5
5205.491	773.106	6.81	1.08	0.81	5
5208.532	773.557	6.40	0.86	0.59	5
5236.421	777.699	6.49	0.95	0.69	5
5238.460	778.002	6.78	1.06	0.81	5
5243.467	778.746	6.51	0.97	0.71	5
5292.330	786.005	6.74	1.07	0.82	5
5296.269	786.588	6.47	0.88		7

X CRU

J.D.	CYCLES	V	B-V	U-B	RF
4563.363	733.665	8.63	1.14		7
4564.312	733.816	8.67	1.11		-7
4565.331	733.980	8.52	1.02		7
4901.451	788.018	8.41	0.98		7
4906.436	788.820	8.72	1.16		7
4907.355	788.968	8.45	1.00		7
4914.376	790.096	8.20	0.90		7
4925.363	791.863	8.67	1.13		7
5169.546	831.121	8.12	0.86	0.59	5
5176.543	832.246	8.14	0.90	0.63	5
5177.530	832.404	8.30	1.01	0.74	5
5179.530	832.726	8.57	1.08	0.87	5
5185.589	833.700	8.55	1.12	0.82	5
5188.568	834.179	8.15	0.84		7
5201.502	836.258	8.17	0.93	0.63	5
5205.516	836.904	8.62	1.10	0.79	5
5208.555	837.392	8.30	1.03	0.73	5
5236.452	841.877	8.63	1.13	0.86	5
5238.489	842.205	8.11	0.89	0.60	5
5241.444	842.680	8.53	1.11	0.82	5
5243.494	843.010	8.33	0.98	0.67	5
5246.438	843.483	8.36	1.05	0.78	5
5281.329	849.092	8.16	0.88		7

TABLE 1 (continued)

X CRU CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5282.311	849.250	8.29	0.93		7
5308.316	853.431	8.41	1.05		7
5309.231	853.578	8.49	1.10	0.01	6

SU CRU

J.D.	CYCLES	V	B-V	U-B	RF
4512.422	351.178	9.67	1.71		7
4530.429	352.579	10.00	2.10		7
4532.408	352.733	10.04	2.03		7
4534.407	352.889	9.86	1.82		7
4587.252	357.001	9.46	1.43		7
4834.561	376.248	9.73	1.20		7
4895.452	380.987	9.43	1.44		7
4896.394	381.060	9.59	1.59		7
4921.387	383.005	9.43	1.44		7
4922.306	383.077	9.58	1.59		7
4934.235	384.005	9.43	1.45		7
5166.532	402.084	9.56	1.55	1.13	5
5184.491	403.481	9.95	1.98	1.52	-5
5186.540	403.641	10.04	1.95	1.52	-5
5188.497	403.793	9.87	1.84	1.35	-5
5189.558	403.876	9.83	1.80	1.46	-5
5241.425	407.912	9.81	1.69	1.24	-5
5242.401	407.994	9.39	1.40	0.98	5
5243.464	408.071	9.53	1.56	1.09	5
5244.480	408.150	9.63	1.63	1.30	-5
5245.464	408.226	9.68	1.76	1.39	-5
5246.415	408.300	9.75	1.80	1.39	-5
5247.423	408.379	9.81	1.86	1.55	-5
5250.477	408.617	10.01	2.02	1.62	-5
5256.443	409.081	9.54	1.55	1.18	5
5257.397	409.155	9.63	1.63	1.33	-5
5270.395	410.167	9.60	1.68	1.30	-5
5276.287	410.625	10.04	1.94	1.69	6
5278.236	410.777	9.94	1.82	1.51	6
5331.231	414.901	9.85	1.80		7
5626.247	437.861	9.99	1.69		7
5627.250	437.939	9.74	1.70		7
5639.226	438.871	9.90	1.90		-7
5640.247	438.950	9.66	1.65		7
5641.237	439.027	9.51	1.57		7

SV CRU

J.D.	CYCLES	V	B-V	U-B	RF
4512.403	644.236	11.76	1.26		7
4546.321	649.079	12.06	1.38		7
4575.267	653.211	11.82	1.24		7
4576.289	653.357	12.00	1.41		7
4834.496	690.221	11.79	1.33		-7
4919.388	702.341	11.97	1.35		-7
4925.313	703.187	11.81	1.25		7

TY CRU

J.D.	CYCLES	V	B-V	U-B	RF
4567.300	915.575	12.46	1.31		7
4576.297	917.379	12.80	1.49		7
4577.307	917.581	12.58	1.35		-7
4916.323	985.541	12.59	1.38		7
5555.359	1113.684	12.68	1.52		-7
5574.402	1117.462	12.52	1.42		-7
5629.274	1128.462	12.69	1.38		-7

VW CRU

J.D.	CYCLES	V	B-V	U-B	RF
4512.420	857.086	9.49	1.20		7
4513.425	857.275	9.47	1.28		7
4545.260	863.322	9.51	1.29		7
4585.258	870.919	9.96	1.46		7
4929.345	936.275	9.47	1.27		7
4934.286	937.213	9.42	1.22		7
5163.535	980.756	9.87	1.41	1.04	5
5165.545	981.138	9.34	1.19	0.83	5
5166.538	981.327	9.46	1.30	0.96	5
5184.497	984.738	9.82	1.46	1.01	5
5186.543	985.127	9.33	1.18	0.89	5
5188.502	985.499	9.60	1.33	1.08	5
5189.563	985.700	9.79	1.42	1.07	5
5195.544	986.836	9.88	1.49	1.16	-5
5216.415	990.800	9.92	1.46	1.16	6
5223.394	992.126	9.35	1.17	0.84	6
5241.428	995.551	9.66	1.38	1.03	5
5242.485	995.752	9.82	1.42	1.11	5
5243.476	995.940	9.84	1.34	1.00	5
5244.487	996.132	9.34	1.16	0.82	5
5245.471	996.319	9.45	1.27	0.94	5
5250.391	997.254	9.38	1.23	0.89	5
5275.319	1001.989	9.76	1.36	0.99	6
5276.292	1002.173	9.34	1.18	0.83	6

VX CRU

J.D.	CYCLES	V	B-V	U-B	RF
4512.441	369.491	12.24	1.80		7
4517.445	369.900	11.75	1.52		7
4517.454	369.901	11.67	1.53		7
4530.444	370.965	11.38	1.42		7
4569.324	374.148	11.85	1.58		7
4580.294	375.047	11.57	1.55		-7
4896.405	400.931	11.64	1.47		7
5251.422	430.000	11.47	1.45		7

AD CRU

J.D.	CYCLES	V	B-V	U-B	RF
4521.377	706.637	10.73	1.09		7
4534.398	708.672	10.69	1.12		7
4535.409	708.830	10.87	1.27		7
4834.551	755.583	10.76	1.18		7
4867.447	760.724	10.79	1.20		7

TABLE I (continued)

AD CRU CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4924.353	769.618	10.85	1.28		-7
4925.342	769.772	10.64	1.22		7
4931.276	770.700	10.71	1.21		7
5183.530	806.998	10.96	1.38	1.00	-5
5166.515	807.462	11.29	1.43	1.05	-5
5186.531	810.593	10.64	1.15	0.81	-5
5188.493	810.900	11.44	2.01		-5
5224.521	816.500	10.98	1.26		7
5241.417	819.171	11.32	1.37	1.14	-5
5242.476	819.337	11.42	1.49	1.08	-5
5243.455	819.490	11.16	1.22	0.86	-5
5244.476	819.649	10.71	1.09	0.77	-5
5245.460	819.803	10.91	1.26	0.90	-5
5257.391	821.668	10.71	1.14	0.85	-5
5270.387	823.699	10.71	1.17	0.80	-5
5275.314	824.469	11.23	1.37	0.96	6
5276.274	824.619	10.67	1.12	0.73	5
5282.285	825.558	10.98	1.21		7
5300.225	829.300	11.44	1.49	1.14	-6
5308.276	829.620	10.75	1.14		7

AG CRU

J.D.	CYCLES	V	B-V	U-B	RF
4563.328	1189.194	7.81	0.54		7
4575.303	1192.314	7.98	0.64		7
4847.399	1263.222	7.75	0.55		7
4895.451	1273.138	7.98	0.60		7
4901.435	1277.304	7.94	0.66		7
4916.347	1281.190	7.82	0.54		7
4920.394	1282.244	7.84	0.58		7
5169.531	1347.169	7.77	0.56	0.32	5
5176.515	1348.989	8.54	0.92	0.63	5
5177.529	1349.250	7.75	0.59	0.35	5
5179.515	1349.771	8.49	0.95	0.68	5
5201.492	1355.498	8.20	0.83	0.54	5
5205.503	1356.543	8.25	0.84	0.58	5
5208.544	1357.335	7.93	0.69	0.41	5
5236.434	1364.604	8.37	0.89	0.61	5
5238.476	1365.136	7.92	0.62	0.36	5
5241.433	1365.906	8.56	0.95	0.67	5
5243.481	1366.440	8.09	0.77	0.49	5
5246.430	1367.208	7.74	0.56	0.20	5
5250.483	1368.265	7.80	0.61	0.35	5

X CYG

J.D.	CYCLES	V	B-V	U-B	RF
2757.930	168.304	6.31	1.24		8
2758.781	168.356	6.40	1.31		8
2766.882	168.850	6.59	1.24		8
2768.771	168.966	6.11	0.87		8
2771.882	169.155	6.14	1.03		8
2772.865	169.215	6.19	1.12		8
2773.795	169.272	6.24	1.20		8
2774.854	169.337	6.37	1.29		8
2776.983	169.467	6.56	1.42		8

X CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3093.906	188.807	6.77	1.29		8
3095.906	188.929	6.57	1.12		8
3096.899	188.990	5.81	0.84		8
3098.965	189.116	6.08	0.98		8
3119.837	190.390	6.40	1.36		8
3122.833	190.572	6.70	1.51		8
3123.934	190.640	6.79	1.52		8
3125.927	190.761	6.80	1.37		8
3126.938	190.823	6.63	1.26		8
3131.764	191.117	6.09	1.01		8
3132.920	191.186	6.18	1.09		8
3133.951	191.251	6.25	1.16		8
3151.717	192.335	6.41	1.28		8
3152.823	192.403	6.51	1.36		8
3153.865	192.466	6.62	1.40		8
3154.837	192.525	6.68	1.45		8
3179.667	194.041	5.92	0.90		5
7131.827	435.227	6.22	1.19	0.93	1
7142.807	435.893	6.64	1.21	0.89	1
7143.869	435.958	6.15	0.96	0.61	1
7144.849	436.018	5.88	0.84	0.56	1
7147.856	436.201	6.12	1.13	0.87	1
7149.881	436.325	6.34	1.28	1.10	1
7156.894	436.753	6.83	1.39	1.20	1
7178.794	438.089	6.04	1.15	0.59	1
7183.733	438.391	6.42	1.33	1.14	1
7206.731	439.794	6.73	1.32	1.02	1
7213.697	440.219	6.15	1.15	0.88	1
7214.677	440.279	6.29	1.22	0.96	1
7214.697	440.280	6.15	1.15	0.88	1
7215.658	440.339	6.36	1.30	1.05	1
7220.621	440.64	6.92	1.47	1.38	1
7221.640	440.704	6.85	1.43	1.36	1
7451.965	454.760	6.82	1.41	1.09	[illegible]
7472.911	456.038	5.87	0.87	0.65	1
7515.822	458.657	6.85	1.45	1.41	1
7521.854	459.025	5.91	0.85	0.63	1

SU CYG

J.D.	CYCLES	V	B-V	U-B	RF
3091.910	803.999	6.65	0.41		8
3092.944	804.268	6.86	0.58		8
3093.948	804.529	7.06	0.68		8
3094.943	804.788	7.14	0.67		8
3095.944	805.048	6.51	0.42		8
3096.930	805.304	6.90	0.59		8
3098.938	805.827	7.17	0.65		8
3125.906	812.639	7.15	0.62		8
3126.912	813.101	6.61	0.46		8
3152.798	819.832	7.13	0.64		8
3153.816	820.097	6.61	0.42		8
3154.788	820.349	6.94	0.61		8
3159.750	821.640	7.10	0.69		8
5348.308	1390.737	7.21	0.69		7
5349.271	1390.988	[illegible]	0.40		7

TABLE 1 (continued)

SU CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5364.310	1394.898	6.77	0.55		7
5365.324	1395.162	6.72	0.52		7
7050.946	1833.479	7.07	0.72	0.30	1
7052.887	1833.984	6.54	0.36	0.07	1
7118.893	1851.148	6.69	0.54	0.23	1
7148.846	1858.937	6.47	0.42	0.18	1
7149.858	1859.200	6.77	0.58	0.25	1
7175.700	1866.700	7.18	0.70	0.26	1
7202.663	1872.931	6.51	0.42	0.23	1
7203.715	1873.205	6.80	0.58	0.26	1
7205.673	1873.714	7.18	0.71	0.26	1
7213.691	1875.799	7.08	0.63	0.23	1
7220.596	1877.594	7.17	0.70	0.27	1
7451.933	1937.749	7.18	0.68	0.24	1
7516.813	1954.620	7.22	0.73	0.29	1
7522.827	1956.184	6.81	0.55	0.30	1

SZ CYG

J.D.	CYCLES	V	B-V	U-B	RF
6735.813	445.862	9.16	1.43		2
6745.834	446.525	9.62	1.59		2
6747.809	446.656	9.35	1.45		2
6748.835	446.724	8.99	1.26		2
6749.847	446.791	8.98	1.30		2
6751.852	446.924	9.29	1.42		3
6753.891	447.059	9.43	1.66		2
6753.918	447.060	9.43	1.66		2
6755.908	447.192	9.64	1.76		2
6757.789	447.317	9.38	1.78		2
6759.784	447.449	9.78	1.73		2
6767.772	447.977	9.33	1.57		2
6773.790	448.376	9.85	1.81		3
6774.730	448.438	9.84	1.76		3
6775.759	448.506	9.64	1.59	1.33	-3
6777.830	448.643	9.48	1.44	1.04	3
6778.805	448.708	9.04	1.7	0.93	3
6784.760	449.102	9.50	1.6	1.55	3
6785.758	449.168	9.63	1.72		3
6786.742	449.233	9.70	1.78	1.63	3
6787.744	449.299	9.78	1.81		3
6789.772	449.434	9.83	1.72	1.59	3
6791.726	449.563	9.58	1.53	1.22	3
6792.738	449.630	9.55	1.49	1.13	3
6793.721	449.696	9.08	1.31	0.93	3
6807.723	450.622	9.58	1.50	1.20	3
6808.728	450.688	9.13	1.30	0.99	3
6809.715	450.754	8.98	1.26	0.95	2
6809.715	450.754	8.97	1.27	0.97	3
6810.717	450.820	9.03	1.36	1.03	3
6810.738	450.821	8.98	1.35	1.07	2
6811.690	450.884	9.17	1.46	1.19	3
6812.680	450.950	9.24	1.52	1.34	3
6813.680	451.016	9.38	1.60	1.41	3
6817.707	451.283	9.78	1.81	1.67	2
6818.608	451.342	9.86	1.80	1.63	2
6819.716	451.416	9.88	1.73	1.50	3

SZ CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6819.788	451.420	9.82	1.76	1.60	2
6833.791	452.347	9.80	1.81	1.67	2
6834.738	452.410	9.81	1.76	1.68	2
6849.730	453.402	9.80	1.78	1.73	2
6849.730	675.420	9.80	1.78	1.72	2
7190.676	475.971	9.25	1.54	1.37	1
7198.785	476.507	9.67	1.63	1.39	1
7203.742	476.835	9.09	1.35	1.05	1
7214.731	477.563	9.59	1.56	1.22	1
7220.656	477.955	9.26	1.54	1.33	1
7221.660	478.021	9.36	1.61	1.50	1
7233.715	478.819	9.02	1.33	1.07	1

TX CYG

J.D.	CYCLES	V	B-V	U-B	RF
6735.920	457.967	9.15	1.75		2
6740.823	458.301	9.72	2.08		2
6741.767	458.365	9.78	2.12		2
6742.778	458.434	9.97	2.23		2
6746.815	458.708	9.72	2.01		2
6748.870	458.848	8.85	1.57		2
6749.884	458.917	8.99	1.66		2
6757.805	459.455	10.03	2.20		2
6758.801	459.523	10.01	2.17		2
6759.831	459.593	9.92	2.11		2
6760.894	459.665	9.80	2.03		2
6767.780	460.134	9.41	1.96		2
6774.803	460.611	9.89	2.02		3
6777.860	460.819	9.20	1.69	1.15	3
6784.778	461.289	9.65	2.10	1.57	-3
6785.806	461.359	9.77	2.14	1.72	3
6786.772	461.425	9.92	2.12		3
6787.760	461.492	9.98	2.11		3
6789.810	461.632	9.85	2.07		3
6791.831	461.769	9.66	1.83	1.47	3
6792.755	461.831	9.03	1.61	1.21	3
6793.748	461.899	8.91	1.59	1.18	3
6793.885	461.908	8.98	1.67	1.26	2
6805.712	462.712	9.73	1.91	1.55	3
6806.729	462.782	9.61	1.85	1.41	3
6806.802	462.787	9.57	1.87	1.50	2
6807.825	462.856	8.82	1.54	1.17	2
6808.737	462.918	8.99	1.66	1.22	3
6809.723	462.985	9.15	1.75	1.34	3
6810.732	463.054	9.25	1.85	1.37	3
6811.727	463.121	9.38	1.91	1.44	3
6812.723	463.189	9.47	1.98	1.65	3
6813.734	463.257	9.62	2.01	1.78	3
6816.894	463.473	9.94	2.22	2.01	2
6817.714	463.528	10.04	2.12		3
6853.683	465.974	9.12	1.73	1.32	2
7190.695	486.887	8.78	1.56	1.20	1
7239.678	492.217	9.49	2.04	1.74	1
6731.892	334.414	10.45	1.96		2
6735.399	334.613	9.82	1.54		2
6741.751	334.904	9.89	1.75		2

TABLE 1 (continued)

VX CYG

J.D.	CYCLES	V	B-V	U-B	RF
6744.897	335.060	10.11	1.92		2
6746.790	335.154	10.26	2.00		2
6748.848	335.257	10.46	2.08		2
6749.864	335.307	10.48	2.07		2
6751.874	335.407	10.58	1.85		3
6753.931	335.509	10.29	1.82		2
6757.796	335.70[illegible]	9.62	1.46		2
6758.793	335.751	9.69	1.55		2
6759.801	335.801	9.72	1.64		2
6760.880	335.854	9.83	1.71		2
6774.792	336.545	10.31	1.78		3
6777.850	336.697	9.54	1.47	1.06	3
6784.768	337.041	10.11	1.94		3
6785.782	337.091	10.16	1.95		3
6786.759	337.140	10.25	2.00		3
6787.752	337.189	10.35	1.98		3
6789.810	337.291	10.53	1.97		3
6790.948	337.348	10.54	2.01		2
6796.780	337.638	9.70	1.47	1.01	2
6810.725	338.330	10.55	1.98		3
6811.717	338.380	10.59	2.03		3
6811.927	338.390	10.48	1.96	1.74	2
6812.717	338.429	10.44	1.91		3
681[illegible].71[illegible]	338.479	10.34	1.79	1.28	3
68[illegible]4.744	338.530	10.34	1.77	1.44	3
6815.727	338.579	10.20	1.70	1.27	3
6816.711	338.628	9.72	1.49	1.13	3
6817.683	338.676	9.55	1.45	1.03	3
6817.716	338.678	9.54	1.46	1.08	2
6818.682	338.726	9.61	1.48	1.13	3
6819.680	338.775	9.71	1.56	1.19	3
6834.754	339.524	10.27	1.77	1.44	2
6841.729	339.871	9.83	1.67	1.55	3
6849.738	340.268	10.47	2.00	1.83	2
6853.676	340.464	10.34	1.83		2
6857.602	340.659	9.60	1.47		2
7190.685	357.205	10.34	2.00	1.92	1

VY CYG

J.D.	CYCLES	V	B-V	U-B	RF
6735.910	857.318	9.29	1.04		2
6736.892	857.443	9.44	1.06		2
6742.773	858.192	9.88	1.35		2
6744.905	858.463	9.36	1.17		2
6745.866	853.585	9.37	1.21		2
6746.819	858.707	9.57	1.30		2
6748.864	858.967	9.91	1.48		2
6749.874	859.095	9.99	1.45		2
6753.939	859.613	9.35	1.24		2
6767.835	861.381	9.21	1.09		2
6771.755	861.880	9.91	1.39		3
6772.868	862.022	9.98	1.20		3
6773.858	862.148	9.90	1.40		3
6774.819	862.270	9.43	1.16	0.76	3
6777.888	862.661	9.42	1.22	0.82	3

VY CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6784.675	863.525	9.40	1.22	0.84	3
6785.841	863.673	9.44	1.26	0.90	3
6786.812	863.797	9.72	1.37	1.06	3
6787.767	863.918	9.85	1.43	1.07	3
6789.824	864.180	9.83	1.35	1.04	3
6790.852	864.311	9.33	1.06	0.80	2
6791.712	864.420	9.27	1.16	0.82	3
6792.763	864.554	9.39	1.20	0.85	3
6796.749	865.061	10.03	1.48		2
6805.744	866.206	9.75	1.30	0.03	3
6806.737	866.333	9.23	1.05	0.81	3
6807.733	866.459	9.35	1.23	0.80	3
6808.743	866.588	9.34	1.21	0.83	3
6811.734	866.969	9.93	1.49	1.16	3
6812.731	867.096	10.01	1.47	1.16	3
6813.731	867.223	9.70	1.27	0.84	3
6814.752	867.353	9.22	1.06	0.80	3
6815.734	867.478	9.38	1.20	0.86	3
6816.718	867.603	9.35	1.20	0.85	3
6833.809	869.778	9.66	1.39	1.00	2
6834.766	869.900	9.80	1.43	1.21	2
6835.672	870.143	9.91	1.42	1.10	2
6845.676	871.289	9.39	1.13	0.75	3
6846.685	871.417	9.28	1.11	0.80	3
6847.758	871.554	9.40	1.21	0.88	3
6849.721	871.803	9.72	1.41	0.95	3
6853.608	872.298	9.35	1.08	0.77	2
7190.712	915.203	9.71	1.30	0.90	1
7228.688	920.037	9.99	1.46	1.17	1
7241.710	921.694	9.50	1.28	0.94	1

VZ CYG

J.D.	CYCLES	V	B-V	U-B	RF
6735.955	1384.687	9.01	0.98		2
6736.934	1384.889	9.19	1.04		2
6740.859	1385.696	9.06	0.98		2
6741.783	1385.885	9.19	1.05		2
6742.798	1386.094	9.27	1.03		2
6745.884	1386.729	9.05	1.00		2
6748.831	1386.923	9.20	1.05		2
6748.884	1387.345	8.60	0.72		2
6749.899	1387.554	8.85	0.89		2
6752.890	1387.963	9.21	1.04	0.79	3
6757.839	1389.186	9.07	0.91		2
6758.809	1389.385	8.68	0.75		2
6759.852	1389.600	8.93	0.95		2
6766.756	1391.019	9.26	1.05	0.75	3
6767.827	1391.239	8.78	0.79		2
6768.757	1391.430	8.70	0.81	0.60	3
6769.895	1391.664	8.94	0.97	0.61	3
6772.907	1392.284	8.66	0.75	0.50	3
6773.880	1392.484	8.75	0.87	0.57	3
6784.852	1394.739	9.04	1.03	0.70	3
6785.946	1394.964	9.25	1.08	0.76	3
6786.845	1395.149	9.15	0.99	0.64	3
6787.824	1395.350	8.63	0.71	0.50	3

TABLE 1 (continued)

VZ CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6792.797	1396.372	8.62	0.75	0.49	3
6793.805	1396.579	8.89	0.91	0.59	3
6805.773	1399.040	9.27	1.07	0.73	3
6806.783	1399.247	8.81	0.80	0.50	3
6806.807	1399.252	8.75	0.78	0.51	2
6808.799	1399.662	8.98	0.97	0.69	2
6809.771	1399.862	9.16	1.05	0.75	3
6810.777	1400.068	9.27	1.07	0.74	3
6810.799	1400.073	9.27	1.05	0.75	2
6811.750	1400.268	8.71	0.76	0.51	3
6811.802	1400.279	8.71	0.74	0.50	2
6812.751	1400.474	8.76	0.82	0.58	2
6815.674	1401.075	9.32	1.05	0.76	2
6816.769	1401.300	8.63	0.74	0.52	3
6844.768	1407.056	9.28	1.09	0.75	3
6845.695	1407.246	8.83	0.80	0.49	3
6846.733	1407.460	8.74	0.81	0.58	3
6847.770	1407.673	9.00	0.97	0.65	3
6848.771	1407.879	9.20	1.05	0.74	3
7228.712	1485.982	9.21	1.07	0.73	1
7237.672	1487.824	9.14	1.04	0.71	1
7239.695	1488.240	8.78	0.78	0.48	1
7241.721	1488.656	8.97	0.95	0.65	1
7251.658	1490.699	9.00	0.98	0.68	1
7472.942	1536.187	9.01	0.89	0.55	1

BZ CYG

J.D.	CYCLES	V	B-V	U-B	RF
6735.819	664.188	10.06	1.50		2
6736.883	664.293	10.14	1.60		2
6740.817	664.681	10.52	1.75		2
6741.805	664.778	10.39	1.71		2
6742.763	664.872	10.27	1.62		2
6744.881	665.081	10.06	1.53		2
6745.841	665.176	10.01	1.55		2
6746.783	665.269	10.13	1.60		2
6748.841	665.472	10.32	1.70		2
6749.854	665.572	10.43	1.75		2
6751.863	665.770	10.52	1.60		3
6753.925	665.973	10.01	1.51		2
6755.915	666.169	10.00	1.51		2
6759.794	666.552	10.42	1.74		2
6760.851	666.656	10.54	1.75		2
6761.858	666.755	10.46	1.69		2
6767.780	667.339	10.19	1.64		2
6773.804	667.933	10.07	1.57		3
6774.740	668.025	10.07	1.51		3
6777.839	668.331	10.16	1.61		3
6778.830	668.429	10.26	1.67		3
6785.769	669.113	10.07	1.52	1.18	3
6788.748	669.210	9.99	1.54	0.95	3
6789.780	669.509	10.28	1.67		3
6790.841	669.613	10.47	1.75	1.28	2
6791.762	669.704	10.49	1.74		3
6792.746	669.801	10.36	1.68		3

BZ CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6795.772	670.099	10.03	1.52	1.07	2
6805.703	671.079	10.05	1.53	0.99	3
6806.720	671.179	10.03	1.50	1.05	3
6812.709	671.769	10.43	1.68		3
6813.708	671.868	10.23	1.57	1.06	3
6814.737	671.969	10.08	1.48	1.08	3
6815.720	672.066	10.06	1.50	1.15	3
6816.703	672.163	10.02	1.49	1.15	3
6834.747	673.943	10.04	1.49	1.18	2
6841.705	674.629	10.54	1.75		3
6844.731	674.927	10.11	1.53	1.17	3
6845.648	675.017	10.02	1.48	1.21	3
6846.678	675.119	10.05	1.51	1.15	3
6847.750	675.225	10.05	1.55	1.13	3
6853.670	675.808	10.33	1.61	1.17	2
6856.608	676.098	10.05	1.52		2
7190.703	709.042	10.02	1.50	1.12	1
7198.812	709.841	10.26	1.63	1.18	1
7601.612	749.560	10.41	1.72	1.46	1

CD CYG

J.D.	CYCLES	V	B-V	U-B	RF
6731.884	394.338	8.63	1.25		2
6735.801	394.568	9.09	1.54		2
6740.783	394.860	9.56	1.64		2
6741.858	394.923	9.45	1.67		2
6742.745	394.975	9.38	1.46		2
6744.851	395.098	9.06	1.30		2
6746.769	395.210	8.47	1.06		2
6747.797	395.271	8.52	1.13		2
6748.793	395.329	8.66	1.21		2
6749.823	395.389	8.73	1.30		2
6751.799	395.505	8.95	1.41	1.34	3
6752.803	395.564	9.01	1.53	1.42	3
6753.862	395.626	9.16	1.55		2
6755.894	395.745	9.38	1.67		2
6757.773	395.855	9.55	1.61		2
6758.759	395.913	9.51	1.56		2
6766.707	396.378	8.75	1.29	1.15	3
6767.753	396.440	8.84	1.38		2
6768.713	396.496	8.91	1.50	1.26	3
6769.859	396.563	8.99	1.55		3
6770.794	396.618	9.12	1.56		3
6771.726	396.672	9.30	1.67		3
6772.824	396.737	9.34	1.66		3
6772.848	396.738	9.36	1.64		3
6773.737	396.790	9.44	1.67		3
6774.771	396.851	9.48	1.64		3
6775.742	396.907	9.41	1.67		3
6777.799	397.028	9.23	1.44		3
6778.790	397.086	9.21	1.35	0.97	3
6790.883	397.794	9.45	1.64	1.53	2
6793.733	397.961	9.38	1.54	1.27	3
6796.759	398.139	8.46	0.99		2
6797.840	398.202	8.43	1.02	0.80	2
6808.714	398.839	9.50	1.70	1.72	3

TABLE I (continued)

CD CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6810.683	398.954	9.41	1.55	1.32	3
6813.568	399.129	8.65	1.03	0.80	3
6813.703	399.131	8.57	1.04	0.77	2
6814.730	399.191	8.44	1.03	0.78	3
6815.689	399.248	8.50	1.07	0.81	3
6816.570	399.305	8.59	1.16	0.90	3
6817.674	399.364	8.69	1.27	1.02	3
6833.784	400.307	8.57	1.19	0.91	2
6848.653	401.178	8.35	1.01	0.78	2
6848.757	401.185	8.44	1.03	0.72	3
6849.707	401.240	8.50	1.09	0.85	3
7190.668	421.213	8.41	1.04	0.76	1
7201.754	421.862	9.49	1.63	1.53	1
7205.708	422.094	9.12	1.33	1.01	1
7215.656	422.677	9.24	1.68	1.48	1
7233.692	423.733	9.34	1.66	1.62	1
7240.681	424.143	8.39	0.98	0.68	1
7461.947	437.104	9.16	1.19	0.97	1
7472.886	437.745	9.34	1.65	1.60	1
7516.862	440.321	8.73	1.26	1.02	1

DT CYG

J.D.	CYCLES	V	B-V	U-B	RF
2772.872	1109.442	5.59	0.47		8
2789.880	1116.247	5.73	0.51		8
2791.889	1117.051	5.90	0.59		8
2792.825	1117.449	5.59	0.47		8
3093.917	1237.854	5.90	0.63		8
3094.920	1238.295	5.71	0.51		8
3095.908	1238.690	5.76	0.55		8
3096.903	1239.088	5.93	0.57		8
3098.857	1239.886	5.92	0.64		8
3136.754	1255.033	5.91	0.59		8
3154.851	1262.274	5.73	0.50		8
3179.689	1272.212	5.78	0.52		8
7151.928	2853.524	5.72	0.54	0.29	1
7142.878	2857.906	5.89	0.62	0.32	1
7143.906	2858.317	5.70	0.52	0.26	1
7144.869	2858.702	5.76	0.53	0.31	1
7147.885	2859.909	5.89	0.63	0.31	1
7160.748	2865.056	5.91	0.61	0.30	1
7162.773	2865.866	5.78	0.59	0.26	1
7176.825	2872.288	5.69	0.52	0.24	1
7178.825	2872.288	5.59	0.51	0.24	1
7182.782	2874.272	5.69	0.51	0.30	1
7189.715	2876.645	5.70	0.52	0.32	1
7191.746	2877.458	5.64	0.48	0.30	1
7213.705	2886.244	5.77	0.52	0.26	1
7214.690	2886.638	5.76	0.53	0.29	1
7215.670	2887.030	5.90	0.63	0.31	1
7220.632	2889.016	5.93	0.61	0.34	1
7221.674	2889.432	5.64	0.48	0.25	1
7515.853	3007.136	5.86	0.56	0.36	1

GH CYG

J.D.	CYCLES	V	B-V	U-B	RF
5363.323	686.035	9.60	1.10		-7

GH CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5364.329	686.163	9.68	1.17		7
6751.770	863.634	10.25	1.42		3
6752.759	863.761	10.31	1.44		3
6767.743	865.677	10.27	1.45		2
6773.714	866.441	9.94	1.40	1.01	3
6773.810	866.453	9.95	1.35	0.88	2
6774.698	866.567	10.18	1.42	1.05	3
6776.726	866.826	10.24	1.38		3
6777.780	866.961	9.94	1.29	0.70	-3
6778.741	867.084	9.54	1.13	0.71	3
6781.889	867.487	10.02	1.43	1.03	2
6785.705	867.975	9.94	1.25	0.84	3
6786.703	868.102	9.58	1.15	0.82	3
6787.694	868.229	9.72	1.26	0.86	3
6790.873	868.636	10.17	1.46	0.98	2
6791.754	868.749	10.32	1.42	1.01	3
6792.700	868.870	10.20	1.36	0.81	3
6793.696	868.997	9.77	1.20	0.80	3
6793.823	869.013	9.65	1.16	0.62	2
6794.748	869.131	9.60	1.14	0.80	2
6795.738	869.258	9.72	1.26	0.76	2
6796.770	869.390	9.80	1.30		2
6797.853	869.529	10.06	1.43		2
6806.676	870.657	10.26	1.44	1.09	3
6806.756	870.667	10.24	1.44	1.01	2
6807.681	870.786	10.35	1.40	0.92	3
6807.803	870.801	10.28	1.41	0.94	2
6808.672	870.913	10.09	1.30	0.90	3
6808.733	870.920	10.06	1.31	0.89	2
6809.652	871.038	9.61	1.12	0.79	3
6810.651	871.166	9.68	1.18	0.87	3
6810.684	871.170	9.67	1.19	0.93	2
6811.664	871.295	9.76	1.24	0.85	3
6811.759	871.307	9.75	1.25	0.88	2
6812.648	871.421	9.90	1.35	0.89	3
6815.681	871.809	10.31	1.44	1.00	2
6816.720	871.942	9.96	1.29	0.83	2
6817.647	872.061	9.58	1.09	0.77	3
6817.861	872.088	9.53	1.13	0.78	2
6818.691	872.194	9.72	1.21	0.85	2
6833.777	874.124	9.55	1.17	0.83	2
6845.644	875.642	10.19	1.43	1.05	2
6846.619	875.765	10.27	1.42	1.08	2
6846.637	875.769	10.33	1.47	1.12	3
6848.678	876.030	9.64	1.14	0.83	3
6852.731	876.548	10.00	1.43	0.97	2
6853.718	876.674	10.22	1.48	1.06	2
6856.596	877.043	9.60	1.11		2

IU CYG

J.D.	CYCLES	V	B-V	U-B	RF
7191.693	229.742	13.76	1.18	0.75	1
7202.681	230.093	13.06	1.12	0.80	1
7472.862	238.724	13.34	0.96	0.73	1
7593.654	242.582	13.40	1.10		1
7601.598	242.836	13.10	0.89	0.62	1

TABLE 1 (continued)

IU CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7621.673	245.478	13.65	1.50	1.35	1
7629.665	243.605	13.91	1.31	0.12	1
7635.580	243.922	12.86	0.95	0.64	1

MW CYG

J.D.	CYCLES	V	B-V	U-B	RF
6751.845	1133.872	9.72	1.43		3
6752.824	1134.036	9.86	1.50		3
6773.781	1137.556	9.31	1.33	1.04	3
6774.721	1137.714	9.50	1.44		3
6777.806	1138.232	9.55	1.28	0.93	3
6778.798	1138.398	9.16	1.21	0.82	3
6781.899	1138.919	9.70	1.56	1.21	2
6785.751	1139.566	9.38	1.35	1.03	3
6787.736	1139.899	9.69	1.51	1.21	3
6793.904	1140.935	9.79	1.53	1.21	2
6795.780	1141.250	9.47	1.35	0.88	2
6796.780	1141.419	9.18	1.23		2
6797.875	1141.602	9.40	1.40		2
6806.691	1143.083	9.87	1.57	1.16	3
6806.774	1143.097	9.87	1.55	1.21	2
6807.715	1143.255	9.49	1.31	0.96	3
6807.813	1143.271	9.43	1.28	0.84	2
6808.720	1143.423	9.20	1.20	0.86	3
6808.755	1143.429	9.21	1.22	1.00	2
6809.708	1143.589	9.41	1.36	0.99	2
6809.708	1143.589	9.40	1.33	0.98	3
6810.698	1143.756	9.53	1.45	1.13	2
6810.710	1143.758	9.54	1.45	1.10	3
6811.772	1143.936	9.84	1.53	1.19	2
6812.672	1144.087	9.88	1.53	1.24	3
6812.728	1144.096	9.85	1.55	1.20	2
6813.675	1144.255	9.52	1.31	0.91	3
6816.677	1144.760	9.55	1.42	1.11	3
6819.709	1145.269	9.48	1.31	0.94	3
6834.723	1147.790	9.54	1.46	1.20	2
6841.698	1148.962	9.83	1.54	1.11	3
6844.724	1149.470	9.25	1.29	0.89	3
6845.680	1149.630	9.40	1.39	1.10	2
6846.717	1149.804	9.52	1.46	1.20	2
6849.713	1150.308	9.31	1.20	0.89	3
6852.642	1150.799	9.52	1.48	1.11	2
6853.627	1150.965	9.78	1.51	1.13	2
6856.635	1151.476	9.21	1.25		2
6857.633	1151.638	9.43	1.49		2
6858.712	1151.819	9.55	1.47		2

MZ CYG

J.D.	CYCLES	V	B-V	U-B	RF
6742.792	317.936	12.64	1.12		2
6781.929	319.782	11.10	0.65	0.47	2
6793.921	320.347	11.72	1.10	1.01	2
6796.790	320.482	11.47	1.12		2
6797.885	320.534	11.75	1.33		2
6806.787	320.954	11.24	0.88	0.69	2
6807.859	321.004	11.20	0.98	0.70	2

MZ CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6808.762	321.047	11.32	1.01	0.96	2
6810.748	321.141	11.40	1.16	1.28	2
6811.780	321.189	11.39	1.17	1.06	2
6812.745	321.235	11.51	1.23	1.18	2
6813.712	321.280	11.67	1.33	1.42	2
6814.770	321.330	11.81	1.36	1.48	2
6815.790	321.378	11.97	1.31	1.41	2
6816.753	321.424	12.31	1.36	1.30	2
6817.724	321.469	12.55	1.31	1.39	2
6818.721	321.517	12.55	1.41	1.03	2
6819.668	321.561	12.71	1.19	1.19	2
6820.695	321.610	12.63	1.11	1.28	2
6833.694	322.223	11.44	1.15	0.83	2
6834.773	322.273	11.53	1.08	0.81	2
6836.682	322.363	11.81	1.19	1.30	2
6845.702	322.789	11.09	0.59	0.41	2
6849.748	322.979	11.19	0.83	0.66	2
6852.712	323.119	11.25	1.07	0.86	2
6853.632	323.163	11.37	1.06		2
6856.642	323.305	11.60	1.20		2
6857.643	323.352	11.85	1.30		2
6858.720	323.403	12.00	1.22		2
7228.702	340.848	11.00	0.55	0.36	1
7515.876	354.389	10.91	1.17	1.16	1

383 CYG

J.D.	CYCLES	V	B-V	U-B	RF
6741.777	1461.724	10.94	1.61		2
6744.866	1462.293	10.66	1.42		2
6745.826	1462.601	10.80	1.57		2
6746.777	1462.808	11.02	1.70		2
6753.876	1464.347	10.55	1.43		2
6755.901	1464.786	11.00	1.61		2
6757.779	1465.193	10.97	1.64		2
6757.949	1465.230	10.76	1.54		2
6758.784	1465.411	10.68	1.48		2
6759.777	1465.626	10.81	1.66		2
6760.841	1465.857	11.06	1.70		2
6761.818	1466.069	11.14	1.70		2
6767.761	1467.357	10.63	1.43		2
6790.922	1472.379	10.58	1.46	1.10	2
6793.865	1473.017	11.10	1.72	1.25	2
6794.801	1473.220	10.80	1.62	1.07	2
6834.731	1481.877	11.06	1.73	1.08	2
6836.665	1482.297	10.66	1.53	1.16	2
6846.680	1484.468	10.64	1.54	1.17	2
6853.721	1485.995	11.08	1.66		2
7215.654	1564.467	10.71	1.52	1.03	1
7222.710	1565.997	11.14	1.73	1.33	1
7233.668	1568.373	10.39	1.50	1.01	1
7239.661	1569.673	10.90	1.67	1.24	1

386 CYG

J.D.	CYCLES	V	B-V	U-B	RF
6735.928	1281.277	9.32	1.42		2

TABLE 1 (continued)

386 CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6736.905	1281.463	9.51	1.50		2
6741.764	1282.387	9.36	1.44		2
6742.784	1282.581	9.60	1.62		2
6744.915	1282.986	9.97	1.74		2
6745.871	1283.168	9.72	1.61		2
6746.824	1283.349	9.28	1.42		2
6747.878	1283.550	9.73	1.69		2
6749.892	1283.933	9.90	1.73		2
6755.935	1285.082	9.95	1.69		2
6757.819	1285.441	9.46	1.49		2
6759.846	1285.826	9.83	1.69		2
6760.805	1286.009	9.97	1.73		2
6767.797	1287.339	9.30	1.41		2
6774.865	1288.683	9.67	1.68		3
6777.905	1289.262	9.35	1.40		3
6784.832	1290.579	9.56	1.58	1.14	3
6785.911	1290.784	9.78	1.68	1.29	3
6786.820	1290.957	9.94	1.69	1.17	3
6787.801	1291.144	9.80	1.59	1.28	3
6789.881	1291.539	9.48	1.55	1.08	-3
6792.770	1292.089	9.92	1.70	1.16	3
6793.764	1292.278	9.28	1.39	0.95	3
6793.892	1292.302	9.30	1.43	0.98	2
6805.760	1294.560	9.57	1.56	1.16	3
6807.832	1294.954	9.89	1.71	1.35	2
6809.738	1295.317	9.27	1.39	1.04	3
6812.738	1295.887	9.88	1.70	1.40	3
6815.742	1296.459	9.44	1.49	1.06	3
6816.732	1296.647	9.66	1.61	1.24	3
6818.689	1297.019	9.96	1.72	1.20	3
6819.724	1297.216	9.56	1.49	1.00	3
6841.738	1301.403	9.34	1.44	1.08	3
6845.691	1302.346	9.28	1.40	0.99	3
6853.683	1303.677	9.67	1.63	1.26	2
7150.735	1367.768	9.77	1.67	1.30	1
7214.740	1372.354	9.28	1.40	1.00	1
7215.677	1372.532	9.52	1.55	1.08	1
7220.641	1373.477	9.44	1.47	1.13	1
7222.696	1373.867	9.92	1.68	1.24	1
7472.928	1421.465	9.40	1.48	1.14	1
7515.867	1429.623	9.61	1.58	1.29	1

402 CYG

J.D.	CYCLES	V	B-V	U-B	RF
6751.808	1546.841	10.14	1.15	0.89	3
6752.812	1547.071	9.87	0.89	0.66	3
6766.720	1550.258	9.66	0.99	0.59	3
6768.725	1550.717	10.17	1.11	0.81	3
6769.872	1550.960	10.18	0.88		3
6770.806	1551.194	9.61	0.24	0.55	3
6771.740	1551.408	9.90	1.02	0.64	3
6772.858	1551.664	10.13	1.11	0.75	3
6773.746	1551.867	10.22	1.11	0.82	3
6774.780	1552.104	9.76	0.88	0.60	3
6775.750	1552.327	9.75	0.98	0.67	3
7142.822	1636.423	9.79	1.05	0.71	1

402 CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7143.862	1636.661	10.01	1.16	0.82	1
7144.841	1636.885	10.10	1.13	0.83	1
7147.849	1637.575	9.93	1.14	0.78	1
7160.703	1640.519	9.89	1.10	0.75	1
7183.724	1645.794	10.10	1.18	0.79	1
7201.765	1649.927	10.09	1.14	0.61	1
7202.738	1650.150	9.57	0.89	0.57	1
7203.729	1650.377	9.76	1.02	0.68	1
7205.718	1650.832	10.05	1.17	0.83	1
7241.678	1659.071	9.78	0.95	0.65	1
7462.939	1709.762	10.06	1.17	0.84	1
7472.894	1712.042	9.83	1.01	0.69	1

459 CYG

J.D.	CYCLES	V	B-V	U-B	RF
6777.895	934.766	10.93	1.68		3
6784.789	935.717	11.01	1.69		3
6785.849	935.863	10.71	1.32	1.01	3
6786.783	935.992	10.29	1.32	0.96	3
6787.793	936.131	10.42	1.42	0.94	-3
6789.830	936.412	10.73	1.56	1.25	3
6791.839	936.689	10.98	1.71		3
6793.756	936.954	10.31	1.33	0.88	3
6805.751	938.608	10.94	1.64		3
6808.775	939.025	10.30	1.30	0.93	3
6809.729	939.156	10.52	1.38	1.11	3
6810.740	939.296	10.49	1.51	1.01	3
6816.724	940.121	10.44	1.40	1.07	3
6817.723	940.259	10.56	1.49	1.21	3

532 CYG

J.D.	CYCLES	V	B-V	U-B	RF
6751.882	2056.258	8.97	0.96	0.75	3
6766.742	2060.784	9.22	1.15	0.79	3
6768.743	2061.393	8.95	1.02		3
6769.883	2061.740	9.15	1.13		3
6772.879	2062.653	9.17	1.05	0.73	3
6773.869	2062.954	9.22	1.13	0.79	3
6777.917	2064.187	9.00	1.06	0.74	3
6785.919	2066.624	9.15	1.14	0.77	3
6786.829	2066.901	9.26	1.14	0.77	3
6787.808	2067.199	9.01	1.02	0.70	3
6791.719	2068.390	8.97	1.02	0.73	3
6793.290	2069.021	9.17	1.12	0.75	3
6806.745	2072.967	9.22	1.14	0.75	3
6807.739	2073.269	8.94	1.01	0.70	3
6811.741	2074.488	9.00	1.05	0.73	3
6812.767	2074.800	9.24	1.17	0.77	3
6813.739	2075.097	9.12	1.08	0.71	3
6814.759	2075.407	8.96	1.02	0.82	3
6816.760	2076.017	9.20	1.10	0.71	3
6817.731	2076.312	8.95	1.00	0.70	3
6818.722	2076.614	9.13	1.10	0.76	3
6819.731	2076.921	9.26	1.16	0.78	3
6845.682	2084.825	9.26	1.16	0.81	3
6846.697	2085.134	9.07	1.06	0.69	3

TABLE 1 (continued)

532 CYG CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6847.763	2085.458	8.98	1.04	0.70	3
6848.765	2085.764	9.24	1.17	0.75	3

538 CYG

J.D.	CYCLES	V	B-V	U-B	RF
6777.939	1107.727	10.41	1.34		3
6784.841	1108.855	10.51	1.38		3
6785.938	1109.035	10.68	1.37		3
6786.835	1109.181	10.69	1.60	1.04	3
6787.814	1109.341	10.39	1.26	0.84	3
6789.533	1109.687	10.40	1.30		3
6791.848	1110.000	10.65	1.40	1.09	3
6793.797	1110.319	10.46	1.23	0.79	3
6805.767	1112.275	10.54	1.33	0.79	3
6806.751	1112.436	10.20	1.18	0.80	3
6807.746	1112.599	10.30	1.25	0.92	3
6809.762	1112.928	10.57	1.45	1.08	3
6810.769	1113.093	10.70	1.48	1.18	3
6812.774	1113.420	10.25	1.20	0.83	3
6813.767	1113.583	10.31	1.24	0.91	3
6818.729	1114.394	10.30	1.18	0.87	3
6819.738	1114.559	10.29	1.21	0.88	3
6841.748	1118.156	10.74	1.53		3
6844.740	1118.645	10.35	1.29	0.92	-3
6845.688	1118.800	10.51	1.34	0.91	3
6846.703	1118.965	10.59	1.45	1.03	3
6849.728	1119.460	10.23	1.15	0.80	3

TX DEL

J.D.	CYCLES	V	B-V	U-B	RF
5343.358	866.500	9.12	0.88		7
5643.447	915.164	9.40	0.95		7
5654.460	916.949	9.11	0.76		7
5665.464	918.734	8.92	0.60		7
5668.513	919.228	9.49	0.98		7
5681.412	921.320	9.50	0.98		7
5682.448	921.488	9.11	0.69		7
5683.442	921.649	8.85	0.55		7
5688.373	922.449	9.31	0.80		7
5689.366	922.610	8.99	0.52		7
7142.845	1158.312	9.49	0.98	0.86	1
7147.871	1159.127	9.30	0.94	0.78	1
7160.722	1161.211	9.41	0.96	0.82	1
7162.764	1161.542	8.94	0.64	0.45	1
7183.761	1164.947	9.07	0.78	0.59	1
7198.826	1167.390	9.44	0.91	0.86	1
7206.741	1168.673	8.86	0.58	0.45	1
7226.680	1171.907	9.06	0.74	0.58	1
7229.677	1172.393	9.46	0.88	0.87	1
7233.635	1173.035	9.19	0.85	0.70	1
7237.651	1173.686	8.87	0.56	0.44	1
7239.623	1174.006	9.15	0.82	0.68	1
7240.670	1174.175	9.36	0.94	0.82	1
7472.918	1211.838	9.00	0.70	0.56	1
7515.837	1218.798	8.97	0.63	0.57	1

TX DEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7521.845	1219.772	8.96	0.65	0.53	1
7542.737	1223.160	9.36	0.95	0.82	1

β DOR HD 37350

J.D.	CYCLES	V	B-V	U-B	RF
4419.030	448.981	3.43	0.60		9
4420.080	449.088	3.58	0.73		9
4422.044	449.287	3.83	0.88		9
4433.031	450.404	3.97	1.01		9
4434.050	450.507	4.09	0.98		9
4438.008	450.909	3.60	0.67		9
4438.960	451.006	3.44	0.65		9
4442.963	451.413	4.01	1.01		9
4449.958	452.124	3.59	0.76		9
4451.009	452.230	3.73	0.84		9
4451.957	452.327	3.87	0.93		9
4462.974	453.446	4.04	0.96		9
4463.994	453.550	4.06	1.01		9
4700.158	477.544	4.08	0.96		9
4705.147	478.051	3.52	0.71		9
4820.003	489.721	3.82	0.80		9
4826.083	490.339	3.90	0.92		9
4828.917	490.626	3.97	0.89		9
4829.985	490.735	3.79	0.79		9
4834.016	491.145	3.62	0.77		9
4840.981	491.852	3.62	0.78		9
4844.952	492.256	3.74	0.88		9
4847.942	492.559	4.04	1.00		9
4855.936	493.372	3.95	0.94		9
5167.256	525.002	3.55	0.67	0.36	5
5169.261	525.205	3.69	0.84	0.62	5
5176.252	525.916	3.60	0.72	0.49	5
5177.248	526.018	3.45	0.67	0.42	5
5187.237	527.032	3.48	0.59	0.47	5
5195.233	527.845	3.62	0.73	0.49	5
5195.260	527.848	3.63	0.73	0.49	5
5201.219	528.453	4.02	1.01	0.30	5
5208.216	529.164	3.62	0.81	0.59	5
5209.215	529.265	3.76	0.89	0.68	5
5238.202	532.211	3.67	0.84	0.63	5
5239.194	532.311	3.81	0.93	0.71	5
5240.194	532.413	3.98	1.01	0.79	5
5242.193	532.616	3.59	0.91	0.68	5
5243.195	532.718	3.80	0.80	0.55	5
5244.196	532.820	3.66	0.73	0.49	5
5245.192	532.921	3.59	0.70	0.47	5
5246.193	533.022	3.45	0.67	0.4[illegible]	5
5247.200	533.125	3.59	0.77	0.55	5
5[illegible].196	534.039	3.48	0.69	0.46	5
5547.232	563.609	4.03	0.88		7
5548.249	563.712	3.82	0.81		7
5555.228	564.421	4.03	1.00		7
5568.229	565.742	3.77	0.76		7
5569.228	565.843	3.65	0.70		7
5573.236	566.251	3.74	0.86		7
5580.218	566.960	3.45	0.62		7

TABLE 1 (continued)

β DOR HD 37350 CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3608.204	569.803	3.54	0.71		7
5612.185	570.208	3.66	0.81		7

UY ERI

J.D.	CYCLES	V	B-V	U-B	RF
6817.951	3080.558	11.35	0.46	0.23	3
6818.927	3080.999	11.49	0.50	0.12	3
6819.987	3081.478	11.25	0.51	0.15	3
6844.919	3092.743	11.47	0.55	0.13	3
6845.903	3093.187	10.96	0.38	0.10	3
6846.902	3093.639	11.42	0.57	0.07	3
6847.936	3094.106	11.13	0.43		3
6848.904	3094.543	11.32	0.53	0.19	3
6849.924	3095.004	11.47	0.54	0.09	3
7222.757	3263.462	11.27	0.47	0.12	1
7668.701	3464.953	11.58	0.51	0.11	1

ζ GEM HD 52973

J.D.	CYCLES	V	B-V	U-B	RF
2841.971	279.898	3.81	0.71		8
2848.955	280.586	4.08	0.97		8
2860.958	281.768	3.91	0.81		8
2865.035	282.170	3.95	0.84		8
2882.875	283.927	3.78	0.72		8
2883.863	284.024	3.80	0.73		8
2885.881	284.223	4.00	0.86		8
2887.870	284.419	4.22	1.03		8
3217.017	316.835	3.85	0.73		8
3233.930	318.501	4.16	1.02		8
3238.951	318.996	3.81	0.70		8
4401.696	433.511	4.15	0.96	0.74	16
4402.704	433.611	4.02	0.86	0.62	16
4403.838	433.722	3.89	0.77	0.53	16
4404.686	433.806	3.79	0.72	0.52	16
4407.773	434.110	3.75	0.79	0.57	16
4409.801	434.310	4.03	0.93	0.75	16
4410.650	434.393	4.11	0.98	0.79	16
4410.773	434.405	4.12	0.98	0.80	16
4411.809	434.507	4.16	0.95	0.75	16
4412.667	434.592	4.07	0.87	0.65	16
4412.773	434.602	4.04	0.86	0.64	16
4413.633	434.687	3.93	0.81	0.55	16
4415.663	434.887	3.73	0.70	0.50	16
4415.779	434.898	3.72	0.69	0.50	16
4416.778	434.997	3.67	0.69	0.46	16
4416.778	434.997	3.68	0.70	0.48	16
4418.662	435.182	3.82	0.85	0.61	16
4419.609	435.276	3.98	0.92	0.71	16
4419.688	435.283	3.99	0.92	0.73	16
4420.585	435.372	4.10	0.97	0.78	16
4420.690	435.382	4.11	0.98	0.78	16
4421.567	435.468	4.16	0.97	0.78	16
4421.744	435.486	4.16	0.97	0.77	16
4423.747	435.683	3.95	0.81	0.55	16
4427.366	436.059	3.71	0.75	0.52	16

ζ GEM HD 52973 CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4427.643	436.067	3.71	0.75	0.53	16
4427.758	436.078	3.72	0.76	0.54	16
4428.807	436.181	3.83	0.86	0.62	16
4439.742	437.258	3.95	0.90		16
4440.658	437.349	4.08	0.96		16
4441.619	437.443	4.15	0.98		16
4442.615	437.541	4.13	0.93		16
4443.622	437.641	3.98	0.84		16
7240.896	713.268	3.85	0.88	0.65	1
7273.899	716.519	4.12	0.98	0.78	1

W GEM

J.D.	CYCLES	V	B-V	U-B	RF
4705.314	604.613	6.93	0.88		7
5166.297	652.750	6.57	0.80	0.52	5
5167.320	652.879	6.75	0.92	0.63	5
5169.300	653.129	7.04	1.07	0.76	5
5176.299	654.013	6.79	0.94	0.63	5
5177.285	654.138	7.06	1.08	0.73	5
5201.250	657.166	7.07	1.09	0.79	5
5535.304	699.373	7.37	1.18		7
5555.319	701.902	6.85	0.90		-7
5568.289	703.540	7.17	0.98		7
5573.281	704.171	7.11	1.10		7
5580.255	705.052	6.90	0.97		7
5595.219	706.943	6.72	0.84		-7
7014.705	886.292	7.26	1.14	0.88	1
7015.604	886.405	7.38	1.14	0.84	1
7020.626	887.040	6.95	1.00	0.66	1
7022.615	887.291	7.29	1.13	0.85	1
7023.656	887.422	7.38	1.12	0.83	1
7024.604	887.542	7.03	0.90	0.55	1
7045.622	890.198	6.99	0.92	0.61	1
7049.650	890.707	6.61	0.70	0.55	1
7240.887	914.869	6.78	0.91	0.56	1
7273.894	919.039	6.97	1.02	0.63	1
7597.860	959.972	6.77	0.91	0.63	1
7601.843	960.475	7.24	1.06	0.74	1
7619.933	962.761	6.72	0.83	0.56	1
7623.887	963.260	7.23	1.18	0.90	1
7635.858	964.773	6.78	0.87	0.59	1
7647.777	966.279	7.37	1.10	0.89	1
7648.878	966.418	7.38	1.12	0.82	1
7649.869	966.543	7.08	0.93	0.57	1
7653.783	967.038	6.99	1.00	0.69	1
7660.796	967.924	6.76	0.88	0.57	1
7663.746	968.296	7.32	1.15	0.90	1

RZ GEM

J.D.	CYCLES	V	B-V	U-B	RF
6812.972	1232.085	10.27	1.25	0.72	2
6813.948	1232.261	10.33	1.23	0.72	2
6814.943	1232.443	9.70	0.93	0.55	2
6815.932	1232.624	9.87	0.97	0.62	2
6816.962	1232.806	9.97	1.07	0.68	2

TABLE 1 (continued)

RZ GEM CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6817.967	1232.988	10.19	1.19	0.64	2
6818.934	1233.163	10.33	1.26	0.67	2
6819.934	1233.344	10.32	1.19	0.62	2
6833.967	1235.881	10.09	1.17	0.70	2
6834.951	1236.059	10.22	1.22	0.73	2
6836.984	1236.427	9.78	0.99	0.64	2
6849.906	1238.764	9.91	1.09	0.68	2
6852.952	1239.315	10.31	1.19	0.78	2
6856.937	1240.035	10.25	1.19		2
6857.891	1240.208	10.38	1.25		2
6858.949	1240.399	9.98	1.07		2
7593.974	1373.324	10.39	1.21	0.74	1
7597.854	1374.026	10.23	1.22	0.80	1
7601.794	1374.738	9.88	1.09	0.69	1
7619.867	1378.007	10.19	1.23	0.79	1
7623.825	1378.722	9.82	1.06	0.46	1
7634.929	1380.731	9.87	1.09	0.68	1
7635.803	1380.889	10.16	1.22	0.76	1
7645.848	1382.705	9.83	1.06	0.68	1
7647.726	1383.045	10.23	1.20	0.78	1
7649.793	1383.419	9.82	0.98	0.61	1
7653.775	1384.139	10.32	1.23	0.79	1
7660.695	1385.390	10.01	1.05	0.62	1
7661.661	1385.565	9.58	0.91	0.65	1
7663.701	1385.934	10.13	1.19	0.78	1

AA GEM

J.D.	CYCLES	V	B-V	U-B	RF
6812.987	602.794	9.79	1.26	0.91	2
6813.960	602.880	9.89	1.26	0.98	2
6814.966	602.969	10.03	1.35	0.83	2
6816.972	603.146	9.88	1.12	0.76	2
6817.974	603.235	9.79	1.08	0.67	2
6818.945	603.321	9.72	1.08	0.51	2
6819.942	603.409	9.47	0.94	0.54	2
6833.974	604.651	9.58	1.13	0.79	2
6834.959	604.738	9.66	1.21	0.87	2
6852.966	606.331	9.70	1.05	0.69	2
6853.953	606.418	9.47	0.88		2
6856.943	606.683	9.61	1.12		2
6857.882	606.766	9.73	1.20		2
6858.959	606.861	9.83	1.28		2
7597.849	672.236	9.74	1.07	0.73	1
7601.799	672.586	9.45	1.02	0.72	1
7619.887	674.186	9.74	1.15	0.78	1
7623.842	674.536	9.39	0.92	0.75	1
7626.859	674.803	9.81	1.30	0.93	1
7634.949	675.519	9.40	0.98	0.68	1
7635.824	675.598	9.53	1.07	0.75	1
7645.876	676.486	9.41	0.94	0.60	1
7647.738	676.650	9.57	1.16	0.77	1
7656.716	677.445	9.42	0.92	0.61	1
7660.713	677.798	9.74	1.23	0.97	1
7663.713	675.064	10.00	1.25	1.02	1

AD GEM

J.D.	CYCLES	V	B-V	U-B	RF
6813.984	1798.820	9.94	0.84	0.49	2
6814.981	1799.083	10.16	0.86	0.48	2
6817.991	1799.878	10.06	0.83	0.43	2
6819.937	1800.397	9.52	0.55	0.31	2
6833.990	1804.101	10.15	0.83	0.51	2
6834.972	1804.361	9.54	0.53	0.32	2
6852.966	1809.116	10.14	0.84	0.50	2
6853.970	1809.376	9.53	0.51		2
6856.961	1810.165	10.12	0.79		2
6857.910	1810.416	9.54	0.55		2
6858.974	1810.697	9.88	0.77		2
7597.908	2005.768	9.93	0.80	0.46	1
7619.942	2011.585	9.75	0.71	0.40	1
7635.867	2015.788	10.00	0.84	0.50	1
7647.784	2018.934	10.04	0.82	0.47	1
7648.885	2019.225	9.91	0.71	0.39	1
7649.876	2019.487	9.68	0.60	0.35	1
7653.792	2020.520	9.69	0.61	0.38	1
7660.802	2022.371	9.49	0.52	0.31	1
7661.717	2022.612	9.79	0.72	0.40	1
7663.751	2023.150	10.11	0.79	0.46	1

BB GEM

J.D.	CYCLES	V	B-V	U-B	RF
6846.004	2965.924	11.61	1.02	0.79	3
6847.005	2966.357	10.83	0.59	0.48	3
6849.007	2967.225	11.68	0.90		3
6850.008	2967.658	11.30	0.92	0.48	3

AP HER

J.D.	CYCLES	V	B-V	U-B	RF
5315.435	510.518	10.41	0.67		7
5358.296	514.627	10.59	0.78		7
5626.455	540.382	10.58	0.63		7
5627.478	540.480	10.38	0.63		7
5636.483	541.345	10.71	0.69		7
5637.447	541.438	10.42	0.58		7
5646.460	542.303	10.93	0.74		7
5687.410	546.236	9.34	1.01		-7
5688.281	546.320	10.69	0.72		7
6781.829	651.347	10.89	0.90		2
6790.830	652.212	10.65	0.77	0.46	2
6792.791	652.400	11.00	0.96	0.59	2
6793.798	652.497	11.07	1.00	0.64	2
6794.732	652.587	11.13	1.05	0.54	2
6795.758	652.685	11.18	0.83	0.55	2
6802.730	653.358	10.96	0.89	0.61	2
6806.747	653.741	11.07	0.87	0.55	2
6807.794	653.841	10.92	0.72	0.42	2
6808.726	653.931	10.59	0.63	0.50	2
6809.691	654.023	10.45	0.62	0.42	2
6810.678	654.118	10.51	0.68	0.50	2
6811.744	654.221	10.73	0.78	0.50	2
6812.721	654.314	10.83	0.89	0.61	2
6815.237	654.536	11.08	1.01	0.53	2
6817.820	654.804	11.05	0.81	0.44	2

TABLE 1 (continued)

AP HER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6818.680	654.887	10.74	0.65	0.45	2
6819.677	654.982	10.46	0.63	0.46	2

CB HER

J.D.	CYCLES	V	B-V	U-B	RF
3087.889	411.324	10.32	1.18		9
3091.840	411.850	9.80	0.89		9
3093.816	412.113	10.03	0.94		9
3094.868	412.253	10.15	1.18		9
3095.785	412.376	10.34	1.24		9
3096.764	412.506	10.43	1.22		9
3098.813	412.779	9.78	0.82		9
3116.767	415.170	9.99	1.07		9
3119.771	415.571	10.28	1.18		9
3122.757	415.968	9.94	0.99		9
4574.885	609.400	10.42	1.20		9
5328.380	709.769	9.97	0.97		7
5359.246	713.881	9.80	0.92		7
5364.266	714.550	10.46	1.27		7
5365.284	714.685	10.20	1.09		7
5629.527	749.884	9.82	0.90		7
5630.527	750.017	9.94	1.01		7
5636.476	750.809	9.85	0.92		7
7022.974	935.499	10.36	1.27	1.03	1
7048.951	938.959	9.84	0.97	0.66	1
7050.938	939.223	10.07	1.14	0.84	1
7054.835	939.743	10.24	1.05	0.72	1
7200.730	959.177	9.96	1.07	0.81	1
7203.647	959.565	10.40	1.26	0.99	1
7458.914	993.568	10.43	1.30	1.12	1
7469.816	995.020	9.95	1.01	0.75	1
7472.803	995.418	10.27	1.24	1.02	1
7521.747	1001.938	9.82	0.92	0.69	1
7533.705	1003.531	10.44	1.22	1.08	1

BL HER

J.D.	CYCLES	V	B-V	U-B	RF
3059.951	2340.355	10.51	0.60		9
3060.947	2341.117	10.34	0.48		9
3062.944	2342.644	10.22	0.38		9
3073.938	2351.053	10.16	0.41		9
3091.803	2364.717	9.86	0.25		9
3092.809	2365.486	10.60	0.51		9
3093.764	2366.216	10.46	0.56		9
3094.767	2366.984	10.06	0.39		9
3095.764	2367.746	9.79	0.26		9
3098.792	2370.062	10.24	0.42		9
3116.757	2383.802	9.91	0.26		9
3123.728	2389.134	10.42	0.48		9
4193.934	3207.464	10.20	0.38		9
4195.965	3209.217	10.28	0.59		9
4213.910	3222.942	10.17	0.38		9
4251.812	3251.931	10.12	0.56		9
4549.971	3479.973	10.07	0.40		9

BL HER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4567.908	3493.692	9.95	0.31		9
4570.828	3495.925	10.04	0.42		9
4574.809	3498.970	10.06	0.39		9
4899.796	3747.531	10.58	0.51	0.22	11
4899.803	3747.537	10.57	0.53	0.20	11
4899.815	3747.546	10.55	0.52	0.18	11
4899.823	3747.552	10.55	0.50	0.20	11
4899.834	3747.560	10.48	0.52	0.11	11
4899.842	3747.567	10.44	0.49	0.12	11
4899.854	3747.576	10.41	0.45	0.16	11
4899.862	3747.582	10.39	0.46	0.18	11
4899.874	3747.591	10.39	0.46	0.18	11
4899.881	3747.596	10.38	0.45	0.18	11
4899.893	3747.605	10.34	0.43	0.20	11
4899.900	3747.611	10.32	0.42	0.20	11
4899.913	3747.620	10.26	0.41	0.17	11
4900.760	3748.269	10.43	0.59	0.24	11
4900.768	3748.275	10.44	0.57	0.28	11
4900.780	3748.284	10.46	0.57	0.29	11
4900.788	3748.290	10.48	0.55	0.34	11
4900.801	3748.300	10.47	0.57	0.31	11
4900.806	3748.306	10.49	0.57	0.29	11
4900.848	3748.336	10.53	0.57	0.32	11
4901.731	3749.012	10.07	0.44	0.26	11
4901.738	3749.017	10.08	0.44	0.25	11
4901.749	3749.025	10.10	0.43	0.25	11
4901.756	3749.031	10.11	0.44	0.24	11
4902.775	3749.810	9.95	0.32	0.27	11
4902.783	3749.816	9.96	0.31	0.24	11
4902.820	3749.844	10.00	0.35	0.21	11
4902.828	3749.850	10.00	0.37	0.20	11
4903.854	3750.635	10.15	0.37	0.19	11
4903.860	3750.639	10.11	0.35	0.18	11
4903.865	3750.644	10.07	0.34	0.18	11
4903.875	3750.651	10.01	0.32	0.18	11
4903.881	3750.656	9.97	0.32	0.18	11
4903.904	3750.673	9.86	0.29	0.20	11
4903.909	3750.677	9.85	0.28	0.20	11
4903.916	3750.683	9.83	0.27	0.19	11
4903.922	3750.687	9.82	0.28	0.18	11
4903.932	3750.695	9.81	0.28	0.19	11
4903.938	3750.699	9.80	0.27	0.20	11
4903.944	3750.704	9.80	0.27	0.20	11
4905.780	3752.[illegible]8	10.29	0.54	0.23	11
4905.788	3752.114	10.30	0.54	0.22	11
4905.794	3752.119	10.31	0.53	0.23	11
4905.869	3752.176	10.29	0.58	0.29	11
4905.875	3752.181	10.32	0.56	0.27	11
4907.801	3753.654	9.96	0.33	0.20	11
4907.806	3753.659	9.93	0.21	0.31	11
4907.814	3753.667	9.89	0.20	0.22	11
4907.824	3753.672	9.86	0.28	0.20	11
4907.830	3753.676	9.84	0.28	0.19	11
4907.841	3753.685	9.82	0.28	0.19	11
4907.848	3753.690	9.81	0.24	0.22	11
4907.855	3753.695	9.80	0.24	0.21	11
4907.865	3753.703	9.79	0.26	0.22	11

TABLE 1 (continued)

BL HER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4907.872	3753.708	9.79	0.27	0.19	11
4907.878	3753.713	9.79	0.26	0.22	11
4907.889	3753.721	9.80	0.26	0.22	11
4907.895	3753.725	9.80	0.27	0.20	11
4907.901	3753.730	9.80	0.27	0.21	11
5269.801	4030.524	10.56	0.55	0.21	11
5270.770	4031.265	10.42	0.56	0.31	11
5276.719	4035.815	9.96	0.33	0.24	11
5276.723	4035.821	9.98	0.32	0.24	11
5276.740	4035.831	9.97	0.33	0.24	11
5276.748	4035.837	9.99	0.34	0.22	11
5276.755	4035.842	9.99	0.37	0.22	11
5276.786	4035.866	10.01	0.38	0.23	11
5276.793	4035.872	10.01	0.38	0.23	11
5276.801	4035.877	10.01	0.39	0.23	11
5276.814	4035.888	10.00	0.39	0.23	11
5276.822	4035.894	10.02	0.38	0.24	11
5287.683	4044.200	10.38	0.56	0.24	11
5287.693	4044.208	10.37	0.59	0.25	11
5287.720	4044.229	10.38	0.59	0.29	11
5287.724	4044.232	10.39	0.57	0.30	11
5287.737	4044.242	10.41	0.53	0.31	11
5287.745	4044.248	10.38	0.57	0.30	11
5287.768	4044.266	10.42	0.61	0.24	11
5287.775	4044.271	10.44	0.60	0.25	11
5287.868	4044.342	10.53	0.59	0.28	11
5287.875	4044.347	10.53	0.59	0.30	11
5287.888	4044.358	10.55	0.59	0.30	11
5287.895	4044.363	10.54	0.60	0.31	11
6025.789	4608.729	9.82	0.29	0.25	11
6025.800	4608.738	9.80	0.32	0.23	11
6025.812	4608.747	9.85	0.29	0.26	11
6025.826	4608.758	9.91	0.28	0.24	11
6025.838	4608.767	9.90	0.32	0.24	11
6025.852	4608.777	9.91	0.33	0.26	11
6025.867	4608.789	9.90	0.35	0.22	11
6041.663	4620.871	10.00	0.39	0.27	11
6041.691	4620.891	10.01	0.41	0.23	11
6041.698	4620.897	10.03	0.39	0.23	11
6041.719	4620.913	10.02	0.41	0.29	11
6066.665	4639.993	10.02	0.45	0.20	11
6066.681	4640.005	10.06	0.43	0.30	11
6066.696	4640.017	10.09	0.43	0.27	11
6066.713	4640.029	10.12	0.43	0.25	11
6066.733	4640.045	10.16	0.43	0.19	11
7056.871	5397.336	10.16	0.30	0.10	1
7453.933	5701.023	10.11	0.45	0.25	1
7455.829	5702.472	10.60	0.56	0.25	1
7458.802	5704.747	9.91	0.31	0.28	1
7469.783	5713.145	10.33	0.56	0.28	1
7472.785	5715.442	10.60	0.58	0.32	1

V LAC

J.D.	CYCLES	V	B-V	U-B	RF
6735.941	1351.638	8.72	0.85		2
6736.940	1351.838	9.04	1.00		2
6740.845	1352.622	8.71	0.82		2

V LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6741.787	1352.811	9.00	0.99		2
6742.831	1353.020	9.24	1.10		2
6745.891	1353.634	8.70	0.84		2
6746.841	1353.825	9.01	1.00		2
6748.891	1354.236	9.35	1.13		2
6749.916	1354.442	8.47	0.67		2
6751.935	1354.847	9.04	1.00	0.69	3
6755.942	1355.651	8.72	0.86		2
6758.851	1356.235	9.41	1.12		2
6759.875	1356.440	8.49	0.72		2
6760.902	1356.647	8.74	0.84		2
6766.823	1357.835	8.99	1.03	0.71	3
6767.895	1358.050	9.26	1.10		2
6768.789	1358.229	9.42	1.13		3
6769.915	1358.455	8.43	0.65	0.55	3
6772.928	1359.060	9.22	1.11	0.77	3
6785.975	1361.678	8.76	0.91	0.58	3
6792.803	1363.048	9.22	1.12	0.70	3
6793.939	1363.276	9.35	1.11	0.74	2
6805.804	1365.657	8.74	0.88	0.56	3
6806.827	1365.862	9.03	1.03	0.70	2
6807.785	1366.054	9.23	1.11	0.74	3
6808.791	1366.256	9.37	1.11	0.76	3
6809.737	1366.456	8.42	0.70	0.55	3
6811.786	1366.857	9.02	1.03	0.72	3
6814.798	1367.461	8.44	0.70	0.54	3
6814.816	1367.465	8.44	0.68	0.53	2
6825.661	1369.641	8.72	0.84		4
6825.850	1369.679	8.77	0.87		4
6826.947	1369.879	9.05	1.05		4
6827.641	1370.038	9.19	1.11		4
6827.854	1370.081	9.24	1.12		4
6828.832	1370.277	9.34	1.10		4
6829.790	1370.470	8.39	0.64		4
6830.797	1370.672	8.74	0.87		4
6831.788	1370.871	9.06	1.02		4
6832.736	1371.061	9.23	1.11		4
6833.760	1371.266	9.34	1.10		4
6837.620	1372.041	9.22	1.10		4
6843.685	1373.258	9.35	1.11		4
6844.774	1373.476	8.44	0.69	0.51	3
6845.732	1373.669	8.77	0.87	0.58	3
6846.670	1373.857	9.04	1.02		4
6846.688	1373.860	9.03	1.02	0.74	2
6846.691	1373.861	9.05	1.03		4
6847.669	1374.057	9.24	1.11		4
6848.655	1374.255	9.36	1.11		4
6848.777	1374.280	9.36	1.10	0.72	3
6849.755	1374.476	8.45	0.68	0.48	2
6853.594	1375.246	9.42	1.10	0.71	2
7184.813	1441.709	8.83	0.92	0.59	1
7190.791	1442.900	9.06	1.05	0.69	1
7191.850	1443.121	9.30	1.12	0.77	1
7198.891	1444.534	8.50	0.74	0.52	1
7201.829	1445.123	9.31	1.13	0.75	1
7202.853	1445.329	9.20	1.01	0.58	1
7203.787	1445.516	8.50	0.72	0.50	1

TABLE 1 (continued)

V LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7205.811	1445.922	9.09	1.06	0.69	1
7213.740	1447.513	8.47	0.69	0.46	1
7214.757	1447.717	8.84	0.93	0.55	1
7215.722	1447.911	9.08	1.07	0.68	1
7220.683	1448.907	9.11	1.05	0.71	1
7221.703	1449.111	9.29	1.13	0.79	1
7515.947	1508.154	9.33	1.13	0.83	1
7517.909	1508.548	8.57	0.74	0.54	1

X LAC

J.D.	CYCLES	V	B-V	U-B	RF
6735.943	1237.220	8.62	1.03		2
6736.942	1237.403	8.41	0.91		2
6740.841	1238.119	8.60	1.04		2
6741.790	1238.294	8.58	1.01		2
6742.827	1238.484	8.26	0.84		2
6745.895	1239.048	8.59	1.05		2
6746.845	1239.222	8.62	1.00		2
6748.897	1239.599	8.22	0.86		2
6749.923	1239.787	8.32	0.92		2
6751.943	1240.158	8.60	1.02	0.74	3
6755.948	1240.894	8.44	0.99		2
6757.845	1241.242	8.63	1.02		2
6759.881	1241.616	8.25	0.84		2
6766.836	1242.894	8.44	0.99	0.67	3
6767.889	1243.087	8.58	1.03		2
6768.801	1243.255	8.60	1.02	0.75	3
6769.929	1243.462	8.25	0.86	0.62	3
6772.937	1244.014	8.52	1.02	0.74	3
6774.886	1244.372	8.47	0.93	0.60	3
6786.885	1246.576	8.23	0.84	0.55	3
6787.876	1246.758	8.31	0.90	0.65	3
6789.979	1247.145	8.59	1.06	0.72	3
6792.810	1247.665	8.22	0.88	0.58	3
6793.811	1247.848	8.38	0.96	0.65	3
6793.945	1247.873	8.43	0.97	0.66	2
6797.845	1248.589	8.22	0.83	0.57	2
6805.810	1250.052	8.56	1.02	0.73	3
6806.833	1250.240	8.58	1.02	0.71	2
6807.793	1250.417	8.36	0.90	0.62	3
6810.791	1250.967	8.49	1.02	0.71	3
6811.793	1251.151	8.57	1.05	0.72	3
6812.790	1251.334	8.51	1.00	0.65	3
6813.784	1251.517	8.21	0.85	0.59	3
6814.819	1251.707	8.27	0.90	0.63	2
6816.782	1252.068	8.56	1.04	0.72	3
6817.744	1252.245	8.59	1.04	0.67	3
6825.664	1253.699	8.24	0.88		4
6825.853	1253.734	8.26	0.87		4
6826.850	1253.917	8.41	1.01		4
6827.643	1254.063	8.51	1.06		4
6827.858	1254.102	8.53	1.03		4
6828.829	1254.280	8.54	1.01		4
6829.793	1254.457	8.22	0.85		4
6830.800	1254.642	8.19	0.83		4
6831.791	1254.824	8.34	0.94		4

X LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6832.739	1254.999	8.49	1.02		4
6833.764	1255.187	8.53	1.02		4
6837.622	1255.895	8.40	0.97		4
6843.688	1257.010	8.50	1.02		4
6844.780	1257.210	8.60	1.04	0.67	3
6845.738	1257.386	8.42	0.92	0.60	3
6846.626	1257.550	8.23	0.81	0.60	2
6846.672	1257.558	8.20	0.82		4
6846.693	1257.562	8.20	0.83		4
6846.747	1257.571	8.22	0.85	0.57	3
6847.671	1257.741	8.28	0.90		4
6848.657	1257.922	8.42	1.00		4
6852.624	1258.651	8.27	0.87	0.58	2
7184.806	1319.664	8.23	0.87	0.57	1
7190.744	1320.755	8.30	0.92	0.60	1
7191.841	1320.956	8.47	1.00	0.68	1
7198.903	1322.253	8.57	1.01	0.68	1
7201.818	1322.789	8.34	0.94	0.61	1
7202.841	1322.977	8.51	1.03	0.64	1
7203.797	1323.152	8.60	1.03	0.67	1
7205.818	1323.524	8.18	0.84	0.53	1
7213.744	1324.979	8.48	1.02	0.67	1
7214.766	1325.167	8.60	1.03	0.64	1
7215.726	1325.344	8.49	0.97	0.58	1
7220.690	1326.255	8.63	1.02	0.66	1
7221.711	1326.443	8.30	0.87	0.55	1
7515.954	1380.488	8.26	0.83	0.59	1
7517.918	1380.848	8.43	0.94	0.65	1

Y LAC

J.D.	CYCLES	V	B-V	U-B	RF
3093.934	715.561	9.49	0.93		8
3094.934	715.792	8.83	0.60		8
3095.920	716.020	9.12	0.78		8
3096.917	716.251	9.39	0.88		8
3098.908	716.711	9.04	0.67		8
3102.941	717.644	9.31	0.80		8
3103.944	717.876	8.86	0.68		8
3122.920	722.265	9.40	0.90		8
3125.872	722.948	9.06	0.72		8
3126.358	723.176	9.35	0.84		8
3151.799	728.944	9.04	0.71		8
3152.872	729.192	9.33	0.86		8
3153.913	729.433	9.50	0.92		8
3154.868	729.654	9.20	0.75		8
3158.767	730.556	9.48	0.92		8
3159.788	730.792	8.83	0.60		8
6825.634	1578.624	9.29	0.77		4
6825.789	1578.660	9.13	0.71		4
6825.817	1578.666	9.10	0.70		4
6826.831	1578.901	8.87	0.65		4
6827.612	1579.081	9.08	0.79		4
6827.832	1579.132	9.16	0.79		4
6828.791	1579.354	9.34	0.88		4
6829.767	1579.580	9.36	0.84		4
6830.613	1579.775	8.76	0.56		4

TABLE 1 (continued)

Y LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6831.756	1580.040	9.06	0.72		4
6832.703	1580.259	9.28	0.88		4
6833.738	1580.498	9.41	0.87		4
6836.593	1581.158	9.18	0.82		4
6837.590	1581.389	9.38	0.87		4
6843.653	1582.791	8.82	0.54		4
6846.646	1583.483	9.44	0.87		4
6847.645	1583.714	8.88	0.61		4
6848.628	1583.942	8.93	0.68		4
7143.926	1652.238	9.30	0.89	0.51	1
7144.887	1652.460	9.46	0.88	0.56	1
7147.840	1653.143	9.20	0.83	0.49	1
7160.764	1656.132	9.20	0.82	0.45	1
7162.784	1656.599	9.29	0.81	0.44	1
7178.837	1660.312	9.29	0.87	0.52	1
7183.799	1661.440	9.44	0.91	0.53	1
7191.798	1663.310	9.36	0.88	0.53	1
7198.842	1664.939	9.01	0.69	0.43	1
7205.780	1666.543	9.43	0.87	0.50	1
7215.705	1668.839	8.82	0.61	0.37	1
7515.908	1738.269	9.34	0.87	0.56	1
7517.880	1738.725	8.87	0.61	0.38	1
7521.935	1739.663	9.18	0.74	0.41	1
7523.838	1740.103	9.19	0.79	0.48	1
7592.737	1756.038	9.06	0.76	0.48	1

Z LAC

J.D.	CYCLES	V	B-V	U-B	RF
2771.930	254.637	8.48	1.26		8
2772.958	254.731	8.68	1.37		8
2773.823	254.810	8.77	1.40		8
2774.972	254.916	8.88	1.46		8
2776.965	255.099	8.60	1.16		8
2777.958	255.190	8.44	1.08		8
2778.948	255.281	8.21	1.03		8
2779.976	255.376	7.92	0.91		8
2788.917	256.197	8.42	1.12		8
2790.903	256.379	7.91	0.91		8
2791.951	256.476	8.21	1.14		8
2792.930	256.566	8.32	1.20		8
3098.927	284.675	8.63	1.31		8
3122.906	286.878	8.86	1.46		8
3123.878	286.967	8.93	1.39		8
3125.878	287.151	8.55	1.11		8
3126.865	287.242	8.45	1.07		8
3131.885	287.703	8.66	1.35		8
3132.899	287.796	8.75	1.40		8
3151.826	289.535	8.23	1.15		8
3152.878	289.631	8.40	1.26		8
3153.941	289.729	8.68	1.35		8
3154.896	289.817	8.76	1.41		8
3158.799	290.175	8.48	1.08		8
3159.816	290.269	8.27	1.03		8
3178.781	292.011	8.82	1.30		8
3179.750	292.100	8.57	1.16		8
3180.729	292.190	8.47	1.09		8
3238.628	297.509	8.21	1.15		8

Z LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6825.645	627.021	8.75	1.27		4
6825.827	627.038	8.68	1.23		4
6826.835	627.130	8.49	1.15		4
6827.628	627.203	8.35	1.07		4
6827.841	627.223	8.35	1.06		4
6828.802	627.311	7.99	0.91		4
6829.781	627.401	8.07	1.02		4
6830.782	627.493	8.22	1.13		4
6831.775	627.584	8.36	1.19		4
6832.727	627.672	8.50	1.30		4
6833.752	627.766	8.66	1.38		4
6837.608	628.120	8.51	1.12		4
6843.673	628.677	8.51	1.28		4
6846.661	628.952	8.84	1.36		4
6847.661	629.044	8.68	1.24		4
6848.645	629.134	8.48	1.12		4
7134.897	655.430	8.12	1.08	0.69	1
7142.951	656.170	8.39	1.10	0.73	1
7147.927	656.627	8.42	1.24	0.99	1
7156.923	657.453	8.19	1.09	0.71	1
7159.873	657.724	8.53	1.34	1.05	1
7162.804	657.993	8.72	1.31	1.02	1
7178.873	659.470	8.14	1.08	0.74	1
7183.853	659.927	8.86	1.39	1.12	1
7190.769	660.562	8.30	1.18	0.87	1
7191.814	660.658	8.48	1.27	1.00	1
7198.858	661.305	7.98	0.90	0.61	1
7201.809	661.577	8.33	1.19	0.88	1
7202.801	661.668	8.48	1.29	0.99	1
7203.776	661.757	8.66	1.36	1.09	1
7205.802	661.943	8.80	1.36	1.08	1
7213.734	662.672	8.48	1.29	1.01	1
7214.749	662.765	8.65	1.36	1.05	1
7215.712	662.854	8.79	1.41	1.15	1
7220.669	663.309	8.01	0.88	0.62	1
7221.686	663.402	8.10	1.01	0.68	1
7517.894	690.613	8.42	1.22	0.96	1

RR LAC

J.D.	CYCLES	V	B-V	U-B	RF
2771.944	432.023	9.28	1.12		8
2772.977	432.184	8.87	0.90		8
2773.846	432.320	8.49	0.70		8
2774.983	432.497	8.71	0.89		8
2777.892	432.949	9.30	1.14		8
2778.986	433.121	9.11	1.02		8
2779.979	433.276	8.46	0.70		8
2788.927	434.670	8.96	1.01		8
2790.906	434.979	9.26	1.15		8
2791.955	435.142	9.05	0.99		8
3098.930	482.986	9.29	1.14		8
3122.910	486.723	8.97	1.04		8
3123.882	486.875	9.20	1.15		8
3125.882	487.187	8.93	0.88		8
3126.868	487.340	8.47	0.73		8

TABLE 1 (continued)

RR LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3131.892	488.123	9.19	1.04		8
3132.906	488.281	8.51	0.70		8
3151.830	491.231	8.57	0.81		8
3152.882	491.395	8.47	0.76		8
3153.944	491.560	8.80	0.92		8
3154.903	491.710	8.95	1.02		8
3158.806	492.318	8.47	0.77		8
3159.819	492.476	8.63	0.87		8
6825.659	1063.817	9.08	1.06		4
6825.839	1063.846	9.10	1.09		4
6826.838	1064.002	9.22	1.12		4
6827.631	1064.125	9.05	0.99		4
6827.844	1064.159	8.94	0.96		4
6829.784	1064.461	8.59	0.84		4
6830.786	1064.617	8.82	0.96		4
6831.778	1064.772	8.99	1.06		4
6832.759	1064.925	9.18	1.10		4
6833.756	1065.080	9.16	1.07		4
6837.604	1065.680	8.89	0.98		4
6843.678	1066.627	8.84	0.96		4
6846.664	1067.092	9.16	1.05		4
6847.663	1067.248	8.59	0.75		4
6848.647	1067.401	8.53	0.77		4
7142.942	1113.269	8.48	0.74	0.47	1
7147.936	1114.047	9.23	1.11	0.75	1
7155.808	1115.274	8.49	0.72	0.44	1
7159.889	1115.910	9.17	1.13	0.79	1
7160.800	1116.052	9.22	1.10	0.75	1
7162.813	1116.366	8.43	0.77	0.46	1
7178.886	1118.871	9.08	1.10	0.73	1
7183.865	1119.647	8.89	0.99	0.63	1
7190.776	1120.724	8.94	1.02	0.67	1
7191.826	1120.887	9.18	1.10	0.79	1
7198.868	1121.985	9.20	1.12	0.81	1
7202.816	1122.600	8.83	0.97	0.61	1
7203.765	1122.748	8.98	1.04	0.67	1
7205.793	1123.064	9.17	1.10	0.71	1
7213.730	1124.301	8.44	0.73	0.44	1
7214.722	1124.456	8.64	0.84	0.51	1
7215.717	1124.611	8.80	0.99	0.61	1
7220.676	1125.384	8.52	0.76	0.53	1
7221.695	1125.543	8.74	0.91	0.59	1
7515.929	1171.401	8.54	0.78		1
7517.941	1171.714	8.93	1.01	0.69	1

BG LAC

J.D.	CYCLES	V	B-V	U-B	RF
3093.941	580.269	8.98	1.08		8
3094.927	580.454	9.11	1.13		8
3095.913	580.639	9.06	1.06		8
3096.910	580.826	8.58	0.80		8
3098.906	581.200	8.91	1.05		8
3102.934	581.956	8.64	0.87		8
3103.938	582.144	8.81	1.03		8
3122.872	585.695	8.96	0.98		8
3123.868	585.882	8.51	0.82		8
3125.861	586.256	8.97	1.08		8

BG LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3126.851	586.441	9.08	1.10		8
3151.795	591.120	8.83	0.97		8
3152.865	591.320	8.97	1.08		8
3154.875	591.697	8.90	0.95		8
3158.774	592.429	9.07	1.09		8
3159.792	592.619	9.08	1.07		8
3179.722	596.357	8.99	1.09		8
3180.708	596.542	9.13	1.15		8
6825.598	1280.142	8.87	0.99		4
6825.786	1280.177	8.89	1.02		4
6827.608	1280.519	9.11	1.14		4
6827.828	1280.560	9.17	1.12		4
6828.786	1280.740	8.94	0.97		4
6829.764	1280.923	8.59	0.84		4
6830.611	1281.082	8.72	0.97		4
6843.645	1283.527	9.14	1.09		4
6846.638	1284.088	8.80	0.97		4
6847.637	1284.275	8.99	1.06		4
7142.385	1339.649	9.09	1.06	0.70	1
7143.914	1339.842	8.59	0.83	0.50	1
7144.878	1340.023	8.70	0.91	0.60	1
7147.895	1340.589	9.17	1.11	0.78	1
7178.849	1346.394	9.00	1.10	0.77	1
7183.823	1347.327	8.99	1.08	0.77	1
7205.768	1351.443	9.08	1.12	0.76	1
7215.694	1353.304	9.01	1.11	0.72	1
7228.719	1355.747	8.79	0.91	0.53	1
7233.738	1356.689	8.98	1.01	0.61	1
7237.680	1357.428	9.10	1.10	0.78	1
7240.704	1357.995	8.70	0.91	0.59	1
7241.731	1358.187	8.90	1.03	0.73	1
7251.665	1360.051	8.75	0.92		1
7267.601	1363.039	8.72	0.94	0.61	1
7273.536	1364.160	8.84	1.02	0.68	1
7472.949	1401.552	9.18	1.12	0.77	1
7515.900	1409.608	9.16	1.06	0.82	1
7521.912	1410.736	8.91	0.93	0.60	1
7523.823	1411.094	8.81	0.97	0.67	1

DF LAC

J.D.	CYCLES	V	B-V	U-B	RF
6830.618	1524.947	11.92	1.25		4
6830.777	1524.982	12.04	1.27		4
6831.714	1525.192	12.20	1.33		4
6831.761	1525.202	12.15	1.29		4
6832.708	1525.413	11.89	1.19		4
6833.628	1525.619	11.58	1.05		4
6836.597	1526.282	12.13	1.30		4
6837.594	1526.504	11.58	1.01		4
6837.842	1526.560	11.56	1.04		4
6843.640	1527.859	11.87	1.20		4
6846.650	1528.526	11.55	1.00		4
6847.648	1528.749	11.75	1.15		4
6848.631	1528.968	11.93	1.29		4
6867.596	1533.202	12.16	1.29		4
6869.580	1533.645	11.65	1.05		4

TABLE 1 (continued)

DF LAC CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6876.611	1535.215	12.19	1.31		4
6879.584	1535.879	11.89	1.21		4
6880.584	1536.102	12.08	1.30		4
6940.600	1549.501	11.59	1.04		4
6942.556	1549.937	11.98	1.27		4
6953.564	1552.395	11.97	1.17		4
6954.558	1552.617	11.62	1.06		4
6955.563	1552.841	11.90	1.23		4

RX LIB

J.D.	CYCLES	V	B-V	U-B	RF
4562.374	182.993	12.09	1.34		7
4929.444	197.716	11.70	0.87		7
4930.403	197.754	11.69	0.87		7
4931.309	197.790	11.65	0.95		7
4932.313	197.831	11.68	0.95		7
5251.503	210.633	11.83	0.72		7
5302.267	212.669	11.86	0.82		7
5555.601	222.830	11.75	1.01		7
5573.610	223.553	12.10	0.80		7
5608.440	224.950	11.90	1.07		7
5609.449	224.990	11.95	1.17		7
5611.524	225.073	12.17	1.24		7
5612.386	225.108	12.34	1.26		7
5622.352	225.508	12.44	0.91		-7
5623.389	225.549	12.30	0.79		-7
5624.278	225.585	12.09	0.77		-7
5626.338	225.667	11.85	0.82		7
5627.278	225.705	11.78	0.83		7
5628.355	225.748	11.[illegible]	0.84		7
5629.449	225.792	11[illegible]	0.96		7
5630.350	225.828	11[illegible]	0.96		-7
5631.343	225.868	11.[illegible]	0.96		7
5634.236	225.984	11.[illegible]	1.04		7
5637.316	226.109	12.13	1.09		7
5638.335	226.149	12.34	1.16		-7
5639.243	226.185	12.36	1.17		-7
5640.281	226.227	12.40	0.89		-7
5641.278	226.267	12.54	1.18		-7
5642.500	226.316	12.49	1.15		-7
5657.225	226.906	11.84	1.09		[illegible]
5660.293	227.029	12.05	1.27		7
7100.733	284.804	11.71	0.90	0.64	1
7102.756	284.885	11.81	1.00	0.79	1
7131.685	286.046	12.02	1.05	0.99	1

CC LYR

J.D.	CYCLES	V	B-V	U-B	RF
6751.725	281.158	12.21	0.72		3
6752.752	281.211	12.25	0.75		3
6773.704	282.084	12.13	0.56		3
6777.729	282.251	12.19	0.73		3
6778.700	282.292	12.19	0.75		3
6783.729	282.501	12.13	0.52	0.23	3
6784.704	282.542	12.03	0.39	0.19	3
6785.684	282.583	11.84	0.38	0.23	3

CC LYR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6786.676	282.624	11.80	0.39	0.26	3
6787.674	282.666	11.76	0.32	0.31	-3
6789.749	282.752	11.92	0.46	0.23	3
6790.676	282.791	11.86	0.45	0.20	3
6791.791	282.837	11.83	0.59	0.25	-3
6792.681	282.874	11.87	0.58	0.29	3
6793.677	282.916	12.03	0.65	0.08	3
6805.683	283.415	12.45	0.70	0.19	3
6806.657	283.456	12.42	0.65	0.30	3
6807.663	283.498	12.32	0.60	0.07	3
6817.664	283.914	11.94	0.63	0.24	3
6818.663	283.956	12.00	0.60	0.16	3
6819.657	283.997	12.01	0.63	0.32	3
6845.619	285.079	12.11	0.70	0.42	-3
6846.620	285.120	12.14	0.66	0.32	-3
6848.654	285.205	12.38	0.61		3
6849.635	285.246	12.41	0.82	0.34	-3

CN LYR

J.D.	CYCLES	V	B-V	U-B	RF
5310.393	2273.324	11.42	0.53		-7
5315.365	2275.452	11.19	0.43		7
5365.253	2296.809	11.41	0.55		7
6744.776	2887.368	11.67	0.64		2
6745.798	2887.805	11.[illegible]	0.49		2
6746.699	2888.191	11.49	0.60		2
6746.903	2888.279	11.68	0.67		2
6747.756	2888.644	11.46	0.45		2
6748.760	2889.073	11.52	0.47		2
6749.744	2889.495	11.63	0.73		2
6751.736	2890.347	11.42	0.82		3
6752.740	2890.777	11.18	0.45		3
6753.826	2891.242	11.56	0.64		2
6755.854	2892.110	11.75	0.55		2
6757.723	2892.910	11.32	0.39		2
6758.740	2893.346	11.55	0.64		2
6759.765	2893.785	11.08	0.48		2
6760.815	2894.234	11.55	0.62		2
6761.766	2894.641	11.23	0.48		2
6765.774	2896.357	11.12	0.67		2
6774.685	2900.172	11.52	0.67		3
6775.719	2900.614	11.56	0.64	0.19	3
6776.697	2901.033	11.39	0.64	0.15	3
6777.741	2901.480	11.65	0.63		3
6778.715	2901.897	11.23	0.54	0.21	3
6786.684	2905.308	11.55	0.72	0.30	3
6787.687	2905.738	11.30	0.51	0.21	3
6791.845	2907.518	11.20	0.47	0.29	2
6792.668	2907.870	11.13	0.46	0.31	3
6793.702	2908.313	11.35	0.54	0.28	2
6792.806	2908.357	11.59	0.60	0.26	2
6810.660	2915.572	11.65	0.67	0.34	3
6811.656	2915.999	11.33	0.60	0.42	3
6812.656	2916.427	11.61	0.66	0.24	3
6813.649	2916.852	11.19	0.43	0.31	3
6818.653	2918.994	11.31	0.60	0.27	3

TABLE I (continued)

CN LYR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6819.648	2919.420	11.66	0.64	0.36	3
6833.762	2925.462	11.23	0.47	0.22	2
6843.640	2929.691	11.30	0.50	0.29	3
6848.663	2931.841	11.30	0.56	0.35	3
6849.653	2932.265	11.69	0.63		3

RR MIC

J.D.	CYCLES	V	B-V	U-B	RF
5256.686	165.390	11.02	0.38	0.15	5
5273.586	165.922	11.64	0.76	0.47	6
5274.587	165.954	11.69	0.77	0.40	6
5276.582	166.016	11.83	0.75	0.43	6
5276.653	166.019	11.82	0.73	0.44	6
5277.581	166.048	11.84	0.73	0.38	6
5278.593	166.080	11.87	0.70	0.38	6
5304.483	166.894	11.80	0.84	0.54	6

T MON

J.D.	CYCLES	V	B-V	U-B	RF
2809.996	103.995	6.50	1.28		8
2813.979	104.142	5.60	0.95		8
2814.970	104.179	5.63	0.98		8
2821.010	104.403	6.02	1.35		8
2822.003	104.439	6.12	1.37		8
2825.008	104.551	6.33	1.42		8
2831.990	104.809	6.55	1.31		8
2833.021	104.847	6.57	1.49		8
2841.964	105.178	5.69	0.96		8
2848.938	105.436	6.15	1.37		8
2860.972	105.882	6.61	1.41		8
2865.014	106.031	6.24	1.18		8
2882.835	106.691	6.48	1.51		8
2883.962	106.732	6.51	1.52		8
2885.899	106.804	6.56	1.50		8
2887.844	106.876	6.62	1.43		8
3216.979	119.057	6.06	1.03		8
3236.889	119.868	6.63	1.43		8
4784.328	177.063	5.76	0.90		7
4785.304	177.099	5.66	0.89		-7
5165.286	191.162	5.59	0.97	0.71	5
5166.287	191.199	5.68	1.03	0.77	5
5167.294	191.236	5.75	1.10	0.85	5
5169.288	191.310	5.91	1.25	0.92	5
5176.304	191.570	6.31	1.43	1.18	5
5177.288	191.606	6.38	1.45	1.18	5
5201.233	192.492	6.21	1.37	1.12	5
5209.232	192.788	6.61	1.44	1.17	5
5532.381	204.748	6.51	1.44		7
5535.295	204.855	6.60	1.41		7
5547.265	205.298	6.08	0.95		-7
5555.258	205.594	6.41	1.45		7
5567.266	206.039	5.94	1.04		7
5568.254	206.075	5.68	0.89		7
5575.234	206.334	5.99	1.21		7
7014.688	259.606	6.34	1.41	1.28	1

T MON CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7015.594	259.640	6.41	1.43	1.28	1
7020.617	259.826	6.59	1.41	1.18	1
7022.603	259.899	6.56	1.34	1.07	1
7023.647	259.938	6.56	1.31	1.07	1
7043.618	260.677	6.49	1.44	1.28	1
7240.863	267.977	6.54	1.33	1.03	1
7273.883	269.199	5.67	0.96	0.89	1

SV MON

J.D.	CYCLES	V	B-V	U-B	RF
4784.307	314.083	8.52	1.34		7
4785.285	314.148	8.70	1.39		-7
5164.335	339.032	8.43	1.32		7
5187.313	340.540	7.87	0.79		7
5532.360	363.192	8.87	1.32		7
5535.276	363.384	8.57	1.19		7
5548.290	364.238	8.88	1.44		-7
5555.249	364.595	7.91	0.92		7
5567.248	365.483	8.47	1.12		7
5568.246	365.548	7.79	0.75		7
5573.254	365.877	8.16	1.17		7
5580.238	366.335	8.67	1.27		7
5612.201	368.434	8.47	1.05		7
7020.608	460.894	8.19	1.17	0.93	1
7022.594	461.024	8.41	1.27	1.09	1
7023.616	461.091	8.56	1.31	1.20	1
7043.610	462.404	8.47	1.13	0.76	1
7240.839	475.352	8.64	1.27	0.97	1
7273.875	477.520	8.17	0.95	0.57	1
7592.950	498.467	8.48	1.14	0.82	1
7597.894	498.792	8.01	1.06	0.84	1
7600.886	498.988	8.33	1.25	1.11	1
7601.839	499.051	8.42	1.30	1.16	1
7619.914	500.237	8.75	1.40	1.30	1
7623.864	500.497	8.37	1.03	0.81	1
7635.844	501.283	8.80	1.39	1.22	1
7645.902	501.943	8.31	1.17	1.05	1
7647.763	502.066	8.50	1.30	1.16	1
7656.731	502.654	7.84	0.84	0.59	1
7660.739	502.917	8.24	1.20	0.99	1
7663.731	503.114	8.57	1.34	1.22	1

SZ MON

J.D.	CYCLES	V	B-V	U-B	RF
6819.987	416.666	10.49	0.90	0.34	2
6834.005	417.522	10.07	0.96	0.60	2
6835.006	417.584	10.22	0.96	0.53	2
6852.997	418.683	10.55	0.94	0.38	2
6853.977	418.743	10.71	0.83		2
6856.966	418.925	10.55	0.75		2
6857.915	418.983	10.29	0.72		2
6858.980	419.048	9.94	0.67		2
7597.923	464.194	9.87	0.89	0.58	1
7600.908	464.376	10.01	0.96	0.65	1
7601.880	464.436	10.10	0.96	0.61	1

TABLE 1 (continued)

SZ MON CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7623.914	465.782	10.26	0.74	0.21	1
7635.883	466.513	10.48	0.95	0.51	1
7648.899	467.308	9.88	0.92	0.61	1
7653.807	467.608	10.53	0.83	0.41	1
7660.815	468.036	9.76	0.71	0.39	1
7663.764	468.216	9.89	0.90	0.63	1

TX MON

J.D.	CYCLES	V	B-V	U-B	RF
4812.305	553.035	10.72	1.06		7
5547.360	637.508	11.29	1.36		7
5567.294	639.799	10.79	1.04		-7
5568.302	639.915	10.86	1.09		-7
5574.255	640.599	11.26	1.23		7
5595.252	643.012	10.69	1.07		7
5609.215	644.617	11.21	1.22		7
6814.998	783.185	10.99	1.22	0.68	2
6819.978	783.759	10.73	1.08	0.62	2
6833.998	785.370	11.16	1.28	0.86	2
6853.002	787.554	11.27	1.33		2
6853.983	787.667	11.07	1.15		2
6856.973	788.010	10.74	1.06		2
6857.919	788.119	10.85	1.16		2
6858.987	788.242	10.98	1.19		2

TZ MON

J.D.	CYCLES	V	B-V	U-B	RF
7600.921	1023.254	11.03	1.32	1.09	1
7601.894	1023.384	11.14	1.34	1.10	1
7635.898	1027.962	10.65	1.18	0.83	1
7648.916	1029.715	10.45	0.98	0.72	1
7649.883	1029.845	10.68	1.13	0.81	1
7653.875	1030.382	11.18	1.36	1.05	1
7654.852	1030.514	10.92	1.19	0.91	1
7660.827	1031.318	11.10	1.35	1.13	1
7661.735	1031.440	11.11	1.32	1.03	1
7663.781	1031.716	10.46	0.99	0.74	1

WW MON

J.D.	CYCLES	V	B-V	U-B	RF
7597.901	1629.643	12.38	1.18	0.73	1
7600.893	1630.285	12.55	1.06	0.69	1
7601.853	1630.491	12.12	1.00	0.72	1
7619.924	1634.367	11.99	0.89	0.61	1
7623.875	1635.214	12.67	1.35	0.48	1
7635.851	1637.783	12.65	1.30		1
7645.910	1639.940	12.71	1.31	0.89	1
7647.770	1640.339	12.12	0.89	0.40	1
7648.871	1640.575	12.27	1.06	0.76	1
7649.859	1640.787	12.60	1.26	0.85	1
7654.839	1641.855	12.64	1.22	0.92	1
7656.738	1642.263	12.57	1.19	1.09	1
7660.747	1643.123	12.94	1.26	0.96	1
7661.710	1643.329	12.17	0.98	0.66	1
7663.740	1643.765	12.54	1.21	0.72	1

XX MON

J.D.	CYCLES	V	B-V	U-B	RF
7597.931	1392.455	11.95	1.30	0.89	1
7600.914	1393.002	11.61	1.02	0.66	1
7601.887	1393.180	11.63	1.13	0.76	1
7623.926	1397.219	11.53	1.24		1
7635.891	1399.412	11.96	1.31	0.91	1
7648.908	1401.798	12.23	1.42	0.87	1
7653.867	1402.706	12.20	1.58	1.17	1
7654.846	1402.886	12.17	1.23	1.14	1
7660.821	1403.981	11.72	1.01	0.71	1
7661.729	1404.147	11.62	1.09	0.72	1
7663.769	1404.521	12.08	1.23	1.23	1

AC MON

J.D.	CYCLES	V	B-V	U-B	RF
5532.409	689.689	10.38	1.38		7
5535.328	690.053	9.77	1.04		7
5547.402	691.558	10.19	1.30		7
5568.322	694.166	9.90	1.13		7
5573.304	694.787	10.45	1.39		7
5574.269	694.907	10.17	1.22		7
5609.231	699.266	9.77	1.12		7
5616.211	700.136	9.86	1.40		-7

CV MON

J.D.	CYCLES	V	B-V	U-B	RF
6512.621	1210.385	10.03	1.25	0.87	14
6514.594	1210.752	10.43	1.46	1.09	14
6515.595	1210.938	10.59	1.33	1.12	14
6516.658	1211.135	10.38	1.37	0.88	14
6517.594	1211.309	9.93	1.17	0.87	14
6571.348	1221.299	9.94	1.19	0.84	14
6572.419	1221.499	10.21	1.34	0.93	14
6575.378	1222.048	10.63	1.52	1.09	14
6612.278	1228.906	10.58	1.47	1.12	-14
6632.213	1232.611	10.33	1.39	1.05	14
6632.412	1232.648	10.32	1.40	1.07	14
6666.344	1238.955	10.61	1.49	1.07	14
6666.351	1238.956	10.63	1.48	1.12	14

R MUS

J.D.	CYCLES	V	B-V	U-B	RF
3776.198	502.829	6.26	0.75		9
3777.238	502.968	6.52	0.91		9
3852.963	513.051	6.63	0.98		9
3855.890	513.441	6.10	0.56		9
4527.115	602.820	6.23	0.76		9
4544.024	605.071	6.66	0.99		9
4558.035	606.937	6.54	0.91		9
4561.024	607.335	6.51	0.77		9
4573.312	608.971	6.58	0.94		7
4575.315	609.238	6.76	0.95		7
4580.306	609.902	6.52	0.89		-7
4587.262	610.829	6.31	0.79		7
4833.147	643.570	6.06	0.61		9
4845.097	645.161	6.78	0.99		9

TABLE 1 (continued)

R MUS CONT.

J.D.	CYCLES		B-V	U-B	RF
4847.407	645.469	5.92	0.54		7
4848.093	645.560	6.04	0.63		9
4873.089	648.889	6.39	0.87		9
4885.460	650.536	6.01	0.57		7
4886.474	650.671	6.19	0.71		7
4903.042	652.877	6.37	0.85		9
4907.342	653.450	5.94	0.55		7
4908.256	653.571	6.05	0.62		7
4917.977	654.866	6.35	0.84		9
4921.008	655.269	6.70	0.91		9
4926.040	655.940	6.52	0.90		9
4927.006	656.068	6.64	0.99		9
4950.008	659.131	6.74	0.98		9
4950.983	659.261	6.75	0.89		9
4952.952	659.523	5.99	0.57		9
4953.947	659.656	6.17	0.70		9
5169.540	688.363	6.33	0.75	0.50	5
5176.519	689.293	6.58	0.87	0.62	5
5177.522	689.426	6.03	0.63	0.37	5
5179.523	689.693	6.15	0.74	0.50	5
5200.154	692.440	6.05	0.57		5
5201.495	692.618	6.05	0.70	0.46	5
5204.551	693.025	6.53	0.97	0.72	5
5205.511	693.153	6.70	1.01	0.77	5
5208.551	693.558	5.97	0.63	0.39	5
5235.447	697.273	6.65	0.93	0.66	5
5238.479	697.543	6.00	0.60	0.36	5
5241.439	697.937	6.46	0.93	0.67	5
5243.486	698.210	6.72	0.99	0.75	5
5246.433	698.602	6.04	0.67	0.43	5
5250.485	699.142	6.73	1.02	0.77	5
5251.439	699.269	6.67	0.92		7
5257.405	700.063	6.62	0.99	0.75	5
5282.299	703.378	6.42	0.74		7
5311.197	707.226	6.65	0.98	0.71	6
5349.211	712.288	6.66	0.87		7

S MUS

J.D.	CYCLES	V	B-V	U-B	RF
3776.118	390.956	6.44	0.91		9
3777.095	391.057	6.24	0.80		9
3852.943	398.910	6.44	0.94		9
3855.888	399.214	6.00	0.73		9
4527.110	468.709	6.25	0.91		9
4544.030	470.460	5.97	0.76		9
4550.031	471.910	6.49	0.95		9
4561.019	472.219	5.99	0.71		9
4563.316	472.457	5.99	0.74		7
4575.286	473.696	6.25	0.94		7
4577.327	473.908	6.47	0.95		7
4580.275	474.213	5.96	0.73		7
4583.286	475.042	6.32	0.86		7
4833.142	500.393	5.95	0.76		9
4834.163	500.499	6.04	0.83		9
4834.166	643.706	6.23	0.74		9

S MUS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4834.505	500.534	6.08	0.81		-7
4845.093	501.630	6.19	0.88		9
4848.086	501.940	6.49	0.91		9
4873.066	504.527	6.07	0.83		9
4890.456	506.327	5.99	0.76		7
4903.060	507.632	6.18	0.88		9
4917.985	509.177	6.02	0.72		9
4921.003	509.490	5.97	0.83		9
4926.043	510.012	6.41	0.88		9
4927.009	510.112	6.17	0.81		9
4929.334	510.352	5.98	0.76		7
4950.000	512.492	6.01	0.79		9
4950.979	512.593	6.18	0.85		9
4952.949	512.797	6.39	0.96		9
4953.943	512.900	6.45	0.95		9
5161.511	534.390	5.90	0.78	0.49	5
5176.491	535.941	6.39	0.95	0.63	5
5177.498	536.046	6.25	0.88	0.57	5
5179.490	536.252	5.93	0.75	0.48	5
5201.463	538.527	6.05	0.85	0.56	5
5205.487	538.943	6.40	0.95	0.64	5
5208.529	539.258	5.93	0.76	0.48	5
5236.417	542.146	6.09	0.79	0.48	5
5238.456	542.357	5.97	0.77	0.49	5
5243.451	542.874	6.39	0.98	0.67	5
5246.407	543.180	5.98	0.76	0.48	5
5250.471	543.601	6.10	0.89	0.60	5
5256.439	544.219	5.93	0.75	0.46	5
5257.387	544.317	5.97	0.78	0.49	5
5309.227	549.684	6.21	0.94	0.57	6
5310.221	549.787	6.31	0.98	0.59	6

RT MUS

J.D.	CYCLES	V	B-V	U-B	RF
4587.225	1486.425	8.77	0.72		7
4834.486	1566.546	8.66	0.70		7
4847.382	1570.725	8.90	0.84		7
4896.372	1586.599	8.79	0.76		7
4905.425	1589.533	8.62	0.70		7
4920.369	1594.375	9.07	0.84		7
4921.377	1594.702	8.90	0.85		7
5163.515	1673.163	9.31	1.02	0.73	5
5169.509	1675.105	9.28	1.02	0.75	5
5176.486	1677.366	9.06	0.86	0.55	5
5177.495	1677.693	8.85	0.84	0.55	5
5179.485	1678.338	9.17	0.94	0.62	5
5201.452	1685.456	8.61	0.69	0.41	5
5208.517	1687.745	8.91	0.89	0.56	5
5223.501	1692.601	8.76	0.76		7
5236.400	1696.780	8.97	0.93	0.59	5
5238.442	1697.442	8.67	0.70	0.40	5
5243.418	1699.055	9.25	1.03	0.72	5
5250.446	1701.332	9.22	0.93	0.60	5
5256.430	1703.271	9.28	1.00	0.67	5
5257.374	1703.577	8.62	0.74	0.45	5
5292.324	1714.902	9.11	0.98	0.68	5

TABLE I (continued)

RT MUS CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5309.251	1720.387	9.01	0.83		7
5328.225	1726.535	8.71	0.67		7

TZ MUS

J.D.	CYCLES	V	B-V	U-B	RF
4519.427	913.959	11.69	1.16		7
4535.394	917.188	11.16	1.74		-7
4569.308	924.046	11.42	1.14		7
4578.283	925.861	11.62	1.38		-7
4867.435	984.336	11.71	1.32		7
4886.456	988.183	11.49	1.22		7
4895.438	989.999	11.44	1.24		7
4916.304	994.219	11.55	1.33		7
4920.380	995.043	11.40	1.20		7
5185.545	1048.667	11.17	1.62	1.41	-5
5188.466	1049.258	11.70	1.33	0.86	-5
5189.535	1049.474	11.73	1.54	1.30	-5
5195.528	1050.686	12.01	1.35	1.20	-5
5217.390	1055.107	11.37	1.14	0.76	6
5241.406	1059.964	11.59	1.24	0.75	-5
5243.430	1060.373	11.66	1.36	1.14	-5
5244.460	1060.582	11.90	1.37		5
5245.437	1060.779	12.04	1.50		-5
5247.446	1061.186	11.72	1.19	0.79	-5
5250.399	1061.783	12.12	1.29		5
5270.373	1065.822	12.08	1.37		5
5273.255	1066.405	11.70	1.36	1.00	-6
5276.265	1067.014	11.39	1.15	0.78	6
5285.300	1068.841	12.03	1.45		7
5315.243	1074.896	11.92	1.31		7

UU MUS

J.D.	CYCLES	V	B-V	U-B	RF
4519.442	388.388	9.85	1.10		7
4520.421	388.472	9.39	0.89		7
4521.351	388.552	9.34	0.90		7
4835.543	415.553	9.31	0.92		7
4905.443	421.560	9.33	0.98		7
4906.421	421.644	9.60	1.11		7
4929.324	423.612	9.50	1.08		7
5166.491	443.994	10.10	1.45	1.20	-5
5188.475	445.883	9.89	1.36	1.08	5
5189.539	445.974	10.02	1.43	1.23	-5
5195.533	446.489	9.23	0.38	0.56	5
5242.461	450.522	9.14	0.86	0.55	5
5243.434	450.606	9.48	1.06	0.71	5
5245.441	450.778	9.73	1.25	0.96	5
5250.456	451.209	10.20	1.44	1.04	-5
5272.228	453.080	10.21	1.45	1.25	6
5273.260	453.169	10.23	1.38	1.09	6
5276.269	453.428	9.69	1.08	0.76	6

S NOR

J.D.	CYCLES	V	B-V	U-B	RF
4561.469	467.643	6.65	1.15		7

S NOR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4563.484	467.849	6.57	1.06		7
4564.408	467.944	6.43	0.93		7
4567.434	468.254	6.18	0.80		7
4569.440	468.460	6.45	1.01		7
4572.393	468.762	6.78	1.13		7
4574.357	468.964	6.45	0.91		7
4577.452	469.281	6.24	0.86		7
4578.344	469.373	6.31	0.95		7
4579.326	469.473	6.49	1.03		7
4580.352	469.578	6.62	1.12		7
4585.276	470.083	6.30	0.85		7
4586.314	470.190	6.16	0.82		7
4867.573	499.024	6.33	0.84		7
4885.513	500.864	6.62	1.01		7
4886.554	500.970	6.43	0.90		7
4917.498	504.143	6.25	0.84		7
5167.624	529.786	6.72	1.11	0.86	5
5169.620	529.990	6.36	0.90	0.62	5
5176.607	530.707	6.74	1.15	0.91	5
5177.607	530.809	6.70	1.09	0.83	5
5184.629	531.529	6.51	1.09	0.85	5
5188.642	531.940	6.43	0.94	0.66	5
5195.640	532.658	6.71	1.14	0.90	5
5201.573	533.266	6.15	0.85	0.58	5
5205.575	533.676	6.73	1.15	0.91	5
5208.614	533.988	6.37	0.90	0.62	5
5215.527	534.697	6.73	1.16	0.87	6
5216.464	534.793	6.73	1.12	0.81	6
5217.467	534.896	6.49	0.99	0.65	6
5217.543	534.903	6.51	0.99	0.62	6
5223.443	535.508	6.49	1.08	0.79	6
5236.519	536.848	6.64	1.04	0.76	5
5238.541	537.056	6.27	0.85	0.58	5
5241.550	537.365	6.29	0.94	0.68	5
5242.552	537.467	6.42	1.04	0.79	5
5243.595	537.574	6.56	1.10	0.86	5
5244.554	537.673	6.69	1.16	0.92	5
5245.554	537.775	6.76	1.11	0.86	5
5246.550	537.877	6.56	0.99	0.71	5
5250.565	538.289	6.19	0.88	0.62	5
5256.504	538.898	6.51	0.98	0.70	5
5257.453	538.995	6.36	0.88	0.61	5
5270.416	540.324	6.23	0.92	0.64	5
5273.347	540.624	6.57	1.16	0.97	6
5274.339	540.726	6.75	1.16	0.84	6
5275.391	540.834	6.65	1.06	0.74	6
5276.348	540.932	6.45	0.96	0.59	6
5277.406	541.041	6.28	0.86	0.51	6
5278.397	541.142	6.22	0.86	0.52	6
5279.431	541.248	6.11	0.83	0.51	6
6806.405	697.794	6.73	1.10	0.80	15
6807.405	697.896	6.50	0.98	0.57	15
6812.304	698.398	6.27	0.94	0.58	15
6813.322	698.503	6.45	1.07	0.76	15
6816.269	698.805	6.71	1.11	0.78	15
6818.240	699.007	6.30	0.88	0.52	15
6819.264	699.110	6.27	0.87	0.50	15

TABLE I (continued)

S NOR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6834.250	700.648	6.68	1.17	0.89	15
6835.269	700.753	6.74	1.13	0.86	15
6840.264	701.265	6.14	0.86	0.50	15
6848.458	702.105	6.30	0.87	0.48	15
6849.266	702.188	6.11	0.82	0.46	15

U NOR

J.D.	CYCLES	V	B-V	U-B	RF
4562.357	360.908	9.12	1.63		7
4563.434	360.993	9.31	1.77		7
4572.348	361.698	8.69	1.38		7
4573.361	361.779	8.89	1.50		7
4574.304	361.853	9.02	1.62		7
4578.309	362.170	9.55	1.88		7
4885.505	386.471	9.45	1.73		7
4886.539	386.553	9.26	1.62		7
4922.462	389.394	9.58	1.81		7
4925.415	389.628	9.06	1.53		7
5166.592	408.706	8.64	1.34	0.91	5
5167.579	408.784	8.84	1.44	1.03	5
5184.593	410.130	9.45	1.79	1.35	-5
5185.658	410.215	9.61	1.79	1.41	-5
5188.614	410.448	9.48	1.67	1.19	5
5195.606	411.002	9.19	1.68	1.25	5
5241.513	414.633	9.07	1.49	1.03	5
5242.520	414.713	8.66	1.32	0.88	5
5243.559	414.795	8.88	1.47	1.04	5
5244.519	414.871	9.00	1.54	1.09	5
5245.511	414.949	9.16	1.60	1.18	5
5246.513	415.029	9.27	1.69	1.30	5
5250.534	415.347	9.63	1.77	1.38	-5
5256.481	415.817	8.93	1.51	1.06	5
5273.314	417.149	9.47	1.76	1.44	6
5274.314	417.228	9.61	1.79	1.44	6
5275.344	417.309	9.69	1.77	1.47	6
5276.326	417.387	9.58	1.72	1.35	6

RS NOR

J.D.	CYCLES	V	B-V	U-B	RF
4562.449	736.100	10.39	1.53		7
4563.471	736.265	10.06	1.34		7
4564.400	736.415	9.80	1.14		7
4565.440	736.582	9.84	1.28		7
4905.554	791.456	9.69	1.18		7
4917.469	793.378	9.62	1.14		7
4930.435	795.470	9.68	1.15		7
4943.289	797.544	9.78	1.22		7
5167.596	833.733	10.00	1.32	1.03	5
5169.572	834.052	10.31	1.47	1.17	-5
5184.612	836.479	9.68	1.14	0.79	5
5188.629	837.127	10.37	1.48	1.20	-5
5195.625	838.256	10.13	1.31	0.92	5
5201.392	839.218	10.31	1.40	1.04	-5
5241.530	845.662	9.91	1.32	0.96	5
5242.536	845.824	10.08	1.34	1.09	-5

RS NOR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5243.579	845.992	10.25	1.44	1.17	-5
5244.534	846.146	10.37	1.49	1.08	-5
5245.530	846.307	9.92	1.21	0.86	5
5246.531	846.469	9.67	1.12	0.78	5
5250.544	847.116	10.38	1.45	1.08	-5
5256.495	848.076	10.37	1.43	1.19	-5
5270.408	850.321	9.87	1.21	0.81	5
5275.351	851.118	9.83	2.03	1.95	-6
5276.333	851.277	10.03	1.30	0.92	6
5308.360	856.444	9.62	1.13		7
5309.256	856.589	9.80	1.24	0.89	6
5363.262	865.302	9.94	1.28		-7

SY NOR

J.D.	CYCLES	V	B-V	U-B	RF
4562.395	360.809	9.86	1.48		7
4563.444	360.892	9.70	1.44		7
4565.404	361.047	9.42	1.30		7
4567.386	361.204	9.17	1.27		7
4568.316	361.277	9.23	1.36		7
4906.529	388.024	9.51	1.32		7
4907.386	388.092	9.12	1.21		7
4919.444	389.046	9.43	1.31		7
4920.465	389.126	9.02	1.17		7
4921.431	389.203	9.14	1.28		7
5166.597	408.591	9.71	1.50	1.06	5
5167.584	408.669	9.84	1.48	1.03	5
5184.601	410.015	9.54	1.29	0.89	5
5185.664	410.099	9.08	1.16	0.79	5
5188.618	410.333	9.29	1.37	0.96	5
5195.614	410.886	9.71	1.36	0.94	5
5201.600	411.360	9.37	1.39	1.01	5
5241.518	414.516	9.60	1.48	1.06	5
5242.528	414.596	9.74	1.46	1.04	5
5243.566	414.678	9.85	1.46	0.94	5
5244.523	414.754	9.87	1.46	0.96	5
5245.515	414.833	9.83	1.41	0.90	5
5246.522	414.912	9.64	1.34	0.90	5
5250.539	415.230	9.15	1.25	0.90	5
5256.486	415.700	9.87	1.44	0.99	5
5273.326	417.032	9.45	1.31	0.85	6
5274.323	417.111	8.99	1.14	0.73	6

TW NOR

J.D.	CYCLES	V	B-V	U-B	RF
4563.462	423.182	11.76	2.06		7
4565.223	423.345	11.27	1.94		7
4565.429	423.364	11.50	1.91		7
4575.398	424.288	11.58	1.95		7
4576.360	424.378	11.56	1.92		7
4577.384	424.473	11.17	1.79		-7
4889.404	453.413	11.46	1.87		-7
5302.298	491.696	11.59	2.01		7
5310.247	492.433	11.39	1.92		7

TABLE 1 (continued)

UX NOR

J.D.	CYCLES	V	B-V	U-B	RF
4567.452	1914.496	13.37	0.36		7
4569.452	1915.335	14.42	0.40		-7
4574.372	1917.397	13.29	0.31		7
4575.422	1917.83[illegible]	13.72	0.78		7
4916.415	206[illegible].68	13.58	0.79		-7
4920.494	2062.478	13.28	0.45		7
4921.447	2062.877	13.99	0.51		-7
4931.350	2067.028	14.16	1.12		-7
5285.388	2215.427	13.25	0.30		7

GU NOR

J.D.	CYCLES	V	B-V	U-B	RF
4574.350	1324.820	10.62	1.43		7
4575.410	1325.127	10.14	1.19		7
4578.351	1325.978	10.27	1.22		7
4914.412	1423.308	10.36	1.34		7
4917.490	1424.199	10.22	1.24		7
4920.474	1425.064	10.10	1.18		7
5167.606	1496.638	10.58	1.39	1.02	-5
5169.588	1497.212	10.26	1.21	0.93	-5
5184.625	1501.567	10.57	1.41	1.05	-5
5188.633	1502.728	10.73	1.31	1.05	-5
5195.637	1504.756	10.65	1.34	0.95	-5
5201.605	1506.485	10.57	1.35	1.06	-5
5241.542	1518.051	10.11	1.15	0.79	5
5242.548	1518.343	10.37	1.28	0.93	-5
5243.588	1518.644	10.60	1.38	1.04	-5
5244.543	1518.920	10.42	1.30	0.91	-5
5245.550	1519.212	10.23	1.20	0.87	5
5246.545	1519.500	10.59	1.35	0.99	-5
5250.556	1520.662	10.62	1.36	0.98	-5
5256.500	1522.383	10.40	1.31	0.98	-5
5274.327	1527.546	10.53	1.36	1.06	6
5275.359	1527.845	10.59	1.36	1.05	6
5277.382	1528.431	10.42	1.35	1.00	6

Y OPH

J.D.	CYCLES	V	B-V	U-B	RF
2771.694	161.867	6.35	1.46		8
2772.708	161.926	6.39	1.49		8
2773.705	161.985	6.43	1.48		8
2776.708	162.160	6.36	1.42		8
2778.728	162.278	6.24	1.32		8
2780.719	162.394	5.97	1.23		8
3039.930	178.700	6.21	1.40		8
3060.938	178.799	6.[illegible]6	1.41		8
3061.919	178.816	6.29	1.43		8
3062.924	178.875	6.34	1.48		8
3063.906	176.932	6.40	1.49		8
3069.889	179.282	6.22	1.31		8
3083.854	180.097	6.46	1.45		8
3087.852	180.331	6.08	1.27		8
3089.837	180.447	5.94	1.23		8
3090.835	180.505	6.00	1.26		8
3091.809	180.562	6.07	1.32		8
3092.816	180.621	6.09	1.32		8

Y OPH CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3093.788	180.678	6.17	1.39		8
3094.785	180.736	6.23	1.41		8
3095.792	180.795	6.28	1.40		8
3096.781	180.852	6.34	1.46		8
3098.771	180.969	6.44	1.48		8
3101.875	181.150	6.40	1.43		8
3102.792	181.203	6.32	1.39		8
3103.799	181.262	6.22	1.35		8
3131.722	182.893	6.36	1.49		8
3132.70[illegible]	182.950	6.40	1.48		8
3152.674	184.117	6.44	1.44		8
3153.684	184.175	6.35	1.40		8
3154.677	184.233	6.27	1.37		8
3158.663	184.466	5.97	1.23		8
3159.670	184.525	6.01	1.30		8
4564.524	266.569	6.07	1.35		7
4573.401	267.087	6.34	1.50		7
4579.416	267.438	5.87	1.28		-7
4585.351	267.785	6.23	1.49		7
4586.377	267.845	6.29	1.51		7
4587.363	267.902	6.36	1.54		7
4901.628	286.256	6.19	1.33		-7
4921.489	287.415	5.90	1.26		7
4953.341	289.276	6.13	1.35		7
4989.228	291.371	5.9[illegible]	1.27		7
5208.660	304.186	6.32	1.41	1.05	5
5243.689	306.232	6.26	1.37	1.00	5
5244.634	306.287	6.13	1.32	0.96	5
5256.550	306.983	6.38	1.48	1.14	5
5292.380	309.076	6.42	1.47	1.11	5
5304.322	309.773	6.27	1.44	1.14	6
5305.350	309.833	6.30	1.47	1.19	6
5306.336	309.891	6.36	1.48	1.20	6
5309.423	310.071	6.40	1.46	1.16	6
5310.436	310.130	6.38	1.45	1.14	6
7015.994	409.735	6.20	1.50	1.14	1
7021.920	410.081	6.40	1.50	1.16	1
7022.960	410.142	6.34	1.48	1.11	1
7050.895	411.773	6.30	1.47	1.19	1
7051.903	411.832	6.32	1.54	1.17	1
7052.962	411.894	6.36	1.55	1.22	1
7082.896	413.642	6.08	1.41	1.04	1
7083.955	413.704	6.15	1.44	1.10	1
7087.766	413.926	6.39	1.54	1.23	1
7091.776	414.160	6.32	1.45	1.12	1
7093.817	414.280	6.16	1.36	1.03	1
7094.772	414.335	6.01	1.30	0.95	1
7099.838	414.631	6.07	1.38	1.05	1
7100.847	414.690	6.14	1.44	1.11	1
7102.842	414.807	6.26	1.51	1.17	1
7130.726	416.435	5.94	1.26	0.94	1
7135.744	416.728	6.17	1.44	1.10	1
7453.922	435.310	6.03	1.30	0.98	1
7455.804	435.420	5.94	1.25	0.98	1
7458.762	435.592	6.07	1.36	1.08	1
7518.637	439.089	6.33	1.49	1.21	1
7521.727	439.270	6.18	1.39	1.05	1

TABLE 1 (continued)

Y OPH CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7523.690	439.384	5.95	1.27	0.98	1

BF OPH

J.D.	CYCLES	V	B-V	U-B	RF
4585.322	1127.219	7.54	1.02		7
4586.324	1127.465	7.61	0.98		7
4587.306	1127.706	7.04	0.68		7
4901.560	1204.960	7.38	0.88		7
4905.612	1205.956	7.33	0.90		7
4916.431	1208.616	7.09	0.71		7
4917.509	1208.881	7.24	0.86		7
4941.204	1214.706	7.03	0.71		7
5176.621	1272.579	7.21	0.79	0.49	5
5177.597	1272.819	7.17	0.82	0.53	5
5184.653	1274.553	7.33	0.83	0.54	5
5201.628	1278.726	7.04	0.73	0.45	5
5205.606	1279.704	7.02	0.72	0.44	5
5238.571	1287.808	7.17	0.81	0.53	5
5241.584	1288.549	7.34	0.85	0.55	5
5242.592	1288.797	7.14	0.80	0.51	5
5243.644	1289.055	7.43	0.98	0.70	5
5244.587	1289.287	7.60	1.03	0.74	5
5245.591	1289.534	7.39	0.87	0.57	5
5246.603	1289.783	7.12	0.79	0.5[illegible]	5
5304.260	1303.956	7.33	0.95	0.66	6
5305.314	1304.216	7.58	1.01	0.67	6
7056.853	1734.800	7.17	0.81	0.43	1
7083.837	1741.433	7.58	0.99	0.58	1
7087.797	1742.407	7.66	1.02	0.67	1
7099.854	1745.371	7.62	1.01	0.66	1
7100.765	1745.595	7.09	0.75	0.38	1
7102.797	1746.094	7.48	0.99	0.63	1
7132.733	1753.454	7.71	1.03	0.62	1
7135.668	1754.175	7.60	1.04	0.69	1
7142.649	1755.891	7.28	0.87	0.53	1
7143.651	1756.138	7.54	1.00	0.68	1
7145.659	1756.631	7.06	0.72	0.41	1
7147.640	1757.118	7.50	1.00	0.65	1
7148.637	1757.363	7.63	1.01	0.63	1
7162.646	1760.807	7.30	0.82	0.46	1
7453.735	1832.366	7.65	1.03	0.63	1
7454.701	1832.603	7.26	0.69	0.47	1
7455.724	1832.855	7.21	0.84	0.52	1
7458.688	1833.584	7.14	0.71	0.42	1
7459.722	1833.838	7.25	0.84	0.52	1
7460.756	1834.080	7.49	0.97	0.62	1
7462.727	1836.577	7.20	0.76	0.41	1
7469.700	1836.291	7.66	1.03	0.72	1
7470.693	1836.535	7.41	0.87	0.52	1
7472.717	1837.032	7.44	0.96	0.62	1
7523.670	1849.558	7.35	0.84	0.52	1

BM OPH

J.D.	CYCLES	V	B-V	U-B	RF
6751.713	610.755	12.41	0.63		3

BM OPH CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6752.774	610.846	12.01	0.56		3
6775.707	612.926	11.69	0.47	0.43	3
6776.636	613.014	11.63	0.51	0.38	3
6777.712	613.107	11.79	0.56	0.35	3
6778.686	613.195	11.99	0.75		3
6779.819	613.297	12.22	0.78		3
6784.691	613.738	12.44	0.69		3
6791.783	614.380	12.23	0.78		3
6805.670	615.636	12.42	0.87		3
6807.655	615.815	12.21	0.45	0.30	3
6808.663	615.907	11.78	0.45	0.28	3
6809.668	615.998	11.64	0.45	0.36	3
6815.653	616.540	12.39	0.83	0.55	3

558 OPH

J.D.	CYCLES	V	B-V	U-B	RF
7453.775	2574.511	13.23	0.67	0.40	1
7455.751	2575.193	12.99	0.59	0.36	1
7458.724	2576.220	12.97	0.66	0.42	1
7460.729	2576.913	12.79	0.57	0.42	1
7462.763	2577.615	13.00	0.65	0.40	1
7470.738	2580.370	13.22	0.67	0.48	1
7471.825	2580.745	12.73	0.58	0.38	1
7472.752	2581.065	13.01	0.48	0.40	1

RS ORI

J.D.	CYCLES	V	B-V	U-B	RF
4580.245	605.307	8.14	0.87		7
4784.318	632.277	8.19	0.83		7
4785.297	632.406	8.12	0.85		-7
5166.283	682.756	8.47	1.1[illegible]	0.83	5
5167.289	682.889	8.64	1.18	0.92	5
5169.283	683.152	8.69	1.09	0.77	5
5176.288	684.078	8.80	1.16	0.85	5
5177.275	684.208	8.46	0.98	0.66	5
5201.247	687.377	8.03	0.81	0.50	5
5209.237	688.432	8.11	0.88	0.56	5
5532.373	731.137	8.70	1.11		7
5535.284	731.522	8.29	0.93		7
5567.254	735.747	8.48	1.12		7
5573.262	736.541	8.26	0.93		7
5574.230	736.668	8.32	0.99		7
6812.992	900.378	8.02	0.84	0.60	2
6813.969	900.508	8.18	0.93	0.63	2
6814.974	900.640	8.29	0.97	0.62	2
6816.979	900.905	8.70	1.13		2
6817.980	901.038	8.84	1.19	0.81	2
6818.952	901.166	8.64	1.08	0.68	2
6819.951	901.298	8.06	0.81	0.53	2
6833.981	903.152	8.69	1.08	0.74	2
6834.966	903.282	8.11	0.84	0.55	2
6852.981	905.663	8.30	1.02	0.67	2
6853.965	905.793	8.61	1.10		2
6856.956	906.189	8.57	1.03		2
6857.915	906.315	8.03	0.78		2
6858.969	906.455	8.18	0.88		2

TABLE 1 (continued)

RS ORI CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7014.679	927.033	8.80	1.19	0.89	1
7015.588	927.153	8.66	1.08	0.69	1
7020.613	927.817	8.59	1.13	0.80	1
7022.598	928.079	8.82	1.15	0.81	1
7023.652	928.218	8.43	0.95	0.59	1
7024.597	928.343	8.03	0.77	0.51	1
7043.626	930.858	8.63	1.14	0.84	1
7049.644	931.653	8.27	0.93	0.70	1
7240.815	956.918	8.71	1.20	0.83	1

CR ORI

J.D.	CYCLES	V	B-V	U-B	RF
7593.990	1546.401	12.03	1.05	0.75	1
7597.87[illegible]	1547.191	12.37	1.14	0.60	1
7601.807	1547.993	12.56	1.24	0.88	1
7619.876	1551.673	12.31	[illegible].22	0.81	1
7634.941	1554.740	12.26	1.19	0.91	1
7645.857	1556.963	12.58	1.22	0.89	1
7647.733	1557.345	11.98	0.99	0.66	1
7649.852	1557.777	12.44	1.22	0.77	1
7654.731	1558.770	12.33	1.25	0.98	1
7656.709	1559.173	12.40	1.11	0.65	1
7663.707	1560.598	12.24	1.18	0.75	1

CS ORI

J.D.	CYCLES	V	B-V	U-B	RF
6832.974	176[illegible].966	11.58	1.01	0.59	2
6853.959	17[illegible]2.220	11.03	0.80		2
6856.949	1762.988	11.52	0.93		2
6857.901	1763.233	11.07	0.82		2
685E.964	1763.506	11.51	1.03		2
7597.883	1953.490	11.52	0.99	0.60	1
7600.876	1954.259	11.14	0.84	0.62	1
7601.823	1954.503	11.50	1.00	0.65	1
7619.900	1959.150	10.89	0.74	0.58	1
7623.850	1960.166	10.91	0.75	0.62	1
7635.831	1963.246	11.16	0.85	0.62	1
7645.889	1965.832	11.72	1.05	0.77	1
7647.751	1966.311	11.26	0.91	0.58	1
7648.857	1966.596	11.61	1.00	0.84	1
7660.733	1969.649	11.65	1.05	0.66	1
7661.702	1969.898	11.74	1.06	0.68	1
7663.719	1970.417	11.58	1.02	0.60	1

κ PAV HD 174694

J.D.	CYCLES	V	B-V	U-B	RF
3777.295	416.479	4.[illegible]0	0.51		9
3852.177	424.735	4.48	0.86		9
3853.167	424.844	4.73	0.91		9
3856.170	425.175	4.61	0.6[illegible]		9
3898.042	429.792	4.61	0.88		9
3917.017	431.884	4.75	0.92		9
3923.903	432.643	4.37	0.72		9

κ PAV HD 174694 CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3928.906	433.195	4.57	0.62		9
3946.913	435.181	4.55	0.64		9
3948.913	435.401	4.01	0.47		9
3980.920	438.930	4.75	0.92		9
3983.917	439.261	4.33	0.56		9
4561.166	502.907	4.75	0.90		9
4848.128	534.547	4.02	0.56		9
4910.090	541.379	4.04	0.46		9
4918.143	542.267	4.49	0.61		9
4920.244	542.499	3.98	0.52		9
4921.119	542.595	4.11	0.60		9
4925.108	543.035	4.78	0.[illegible]		9
4951.001	545.890	4.64	0.91		9
4959.978	546.880	4.66	0.91		9
4982.004	549.308	4.37	0.54		9
5002.031	551.516	4.00	0.51		9
5004.002	551.734	4.41	0.77		9
5013.013	552.727	4.38	0.81		9
5013.984	552.834	4.56	0.89		9
5014.962	552.942	4.75	0.93		9
5238.635	577.604	4.07	0.58	0.37	5
5242.607	578.042	4.77	0.87	0.67	5
5244.702	578.273	4.51	0.59	0.37	5
5246.607	578.483	3.95	0.46	0.25	5
3256.706	579.596	4.07	0.57	0.36	5
5292.433	583.535	4.00	0.51	0.32	5
5302.460	584.641	4.12	0.63		7
5304.474	584.863	4.59	0.89	0.73	6
5305.454	584.971	4.74	0.92	0.80	6
5308.021	585.254	4.53	0.65		9
5348.370	589.703	4.23	0.69		7
5349.258	589.801	4.47	0.82		7
5365.201	591.570	3.98	0.50		7
5370.291	592.120	4.70	0.75		7
5372.268	592.338	4.19	0.48		7
5626.470	620.366	4.04	0.42		7
5627.503	620.480	3.95	0.45		7
5628.480	620.588	4.06	0.58		7
5629.548	620.705	4.30	0.72		7
5636.505	621.472	3.91	0.44		7

RS PAV

J.D.	CYCLES	V	B-V	U-B	RF
5201.654	260.682	11.11	1.26	1.09	-5
5243.677	262.768	10.99	1.11	0.97	-5
5244.643	262.837	10.92	1.03	0.68	-5
5246.612	262.935	10.74	0.90	0.61	5
5256.660	263.440	10.37	1.18	1.03	-5
5275.375	264.377	10.15	1.05	0.96	6
5276.438	264.430	10.28	1.14	1.03	6
5304.340	265.828	11.26	1.20	0.99	6
5305.360	265.880	11.10	1.09	0.84	6
5306.318	265.928	10.97	1.02	0.74	6
5309.370	266.081	10.32	0.78	0.47	6
5310.344	266.129	10.17	0.78	0.47	6
3119.872	1301.101	9.34	0.96		9

TABLE I (continued)

AU PEG

J.D.	CYCLES	V	B-V	U-B	RF
3122.861	1302.348	9.10	0.81		9
3123.854	1302.762	9.10	0.93		9
3125.854	1303.596	9.03	0.81		9
3126.844	1304.009	9.27	0.96		9
3148.809	1313.169	9.26	0.93		9
3151.778	1314.407	9.00	0.77		9
3153.893	1315.289	9.09	0.86		9
3154.858	1315.692	9.04	0.89		9
3158.762	1317.320	9.08	0.82		9
3179.705	1326.054	9.33	0.94		9
3180.701	1326.469	9.08	0.78		9
5348.370	2230.467	9.13	0.84		7
5364.352	2237.132	9.15	0.74		7
5643.458	2353.530	9.42	0.87		7
5654.469	2358.122	9.20	0.88		7
5661.464	2361.039	9.14	0.87		7
5668.521	2363.982	9.12	0.86		7
5681.422	2369.362	9.46	0.93		7
5682.457	2369.794	9.07	0.73		7
5683.452	2370.209	9.29	0.94		7
5686.451	2371.459	9.42	0.91		7
5687.477	2371.887	9.11	0.81		7
5688.382	2372.265	9.39	0.93		7
5689.372	2372.677	9.10	0.71		7
7131.917	2974.272	9.31	0.97	0.71	1
7142.869	2978.839	9.05	0.74	0.49	1
7143.899	2979.269	9.29	0.94	0.66	1
7144.861	2979.670	9.23	0.79	0.48	1
7147.879	2980.929	9.07	0.81		1
7178.814	2993.830	9.02	0.77	0.49	1
7183.772	2995.897	9.04	0.80		1
7189.726	2998.380	9.42	0.93	0.63	1
7189.734	2998.384	9.42	0.93	0.63	1
7191.781	2999.237	9.31	0.94	0.67	1
7205.733	3005.056	9.18	0.90	0.63	1
7215.679	3009.203	9.32	0.97	0.65	1
7228.676	3014.624	9.09	0.73	0.47	1
7233.731	3016.732	9.05	0.74	0.52	1
7239.686	3019.215	9.32	0.93	0.68	1
7240.692	3019.635	9.11	0.74	0.47	1
7241.700	3020.055	9.19	0.90	0.68	1
7472.934	3116.488	9.07	0.79	0.54	1
7515.885	3134.400	9.07	0.78	0.57	1
7521.872	3136.897	9.50	0.96	0.67	1
7523.813	3137.707	9.29	0.94	0.63	1

SV PER

J.D.	CYCLES	V	B-V	U-B	RF
2860.865	257.067	9.37	1.14		9
2883.938	259.140	9.34	1.11		9
2885.979	259.324	9.03	0.98		9
2887.947	259.500	8.58	0.80		9
2944.896	264.618	8.69	0.93		9
2947.791	264.878	9.04	1.12		9
3178.962	285.650	8.74	0.97		9
3181.021	285.835	8.99	1.12		9

SV PER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4335.042	389.531	8.59	0.85		9
4337.012	389.708	8.80	1.03		9
4341.958	390.152	9.34	1.14		9
4418.816	397.059	9.35	1.11		9
4424.783	397.595	8.69	0.92		9
4425.769	397.683	8.78	1.03		9
7215.847	648.390	8.99	1.06	0.49	1
7592.869	682.267	9.11	1.10	0.56	1
7597.827	682.713	8.78	1.04	0.62	1
7600.765	682.977	9.18	1.19	0.67	1
7601.767	683.067	9.30	1.19	0.62	1
7619.759	684.684	8.73	1.05	0.64	1
7621.770	684.864	8.99	1.16	0.69	1
7623.688	685.037	9.22	1.24	0.62	1
7625.723	685.220	9.26	1.13	0.62	1
7626.752	685.312	9.05	1.08	0.55	1
7634.890	686.043	9.25	1.24	0.61	1
7635.698	686.116	9.38	1.23	0.60	1
7645.804	687.024	9.22	1.21	0.62	1
7646.708	687.105	9.26	1.26	0.60	1
7652.763	687.649	8.70	1.01	0.55	1
7653.736	687.737	8.80	1.06	0.65	1
7654.702	687.823	8.92	1.14	0.67	1
7655.722	687.915	9.07	1.19	0.68	1
7656.667	688.000	9.22	1.20	0.64	1
7658.703	688.183	9.28	1.18	0.46	1

SX PER

J.D.	CYCLES	V	B-V	U-B	RF
6796.979	1584.339	11.41	1.33		2
6809.896	1587.350	11.42	1.31	0.82	2
6810.959	1587.598	11.38	1.27	0.81	2
6811.947	1587.828	10.83	0.99	0.67	2
6812.855	1588.040	11.14	1.17	0.83	2
6813.874	1588.278	11.29	1.30	0.87	2
6814.870	1588.510	11.52	1.31	0.89	2
6815.899	1588.750	10.85	0.97	0.58	2
6816.867	1588.975	11.05	1.17	0.75	2
6817.915	1589.219	11.30	1.28	0.87	2
6817.957	1589.229	11.30	1.28	0.89	3
6818.871	1589.442	11.49	1.31	0.84	2
6818.907	1589.451	11.48	1.31	1.00	3
6819.877	1589.677	10.97	1.06	0.66	2
6819.918	1589.686	10.89	1.03	0.67	3
6823.895	1592.944	11.01	1.12	0.79	2
6834.884	1593.175	11.28	1.31	0.84	2
6836.926	1593.651	11.15	1.09	0.73	2
6844.934	1595.517	11.50	1.29	0.89	3
6845.939	1595.752	10.72	0.97	0.72	3
6846.936	1595.984	11.04	1.17	0.69	3
6848.946	1596.453	11.52	1.26		3
6849.931	1596.682	10.90	1.03	0.82	3
6852.848	1597.362	11.45	1.30	0.94	2
6853.863	1597.599	11.38	1.26	0.76	2
6858.869	1598.766	10.72	0.96		2
6827.774	1495.384	11.11	0.81		4

TABLE 1 (continued)

UX PER

J.D.	CYCLES	V	B-V	U-B	RF
6827.947	1495.422	11.16	0.84		4
6836.841	1497.370	11.07	0.79	0.59	2
6837.785	1497.577	11.49	0.99		4
6843.852	1498.905	11.88	1.17		4
6847.780	1499.766	11.74	1.12		4
6847.904	1499.793	11.79	1.11		4
6849.805	1500.209	11.76	1.02	0.69	2
6852.795	1500.864	11.78	1.10	0.42	2
6853.819	1501.088	11.98	1.12	0.66	2
6856.752	1501.731	11.12	1.10		2
6857.775	1501.955	11.96	1.08		2
6866.822	1503.936	11.92	1.14		4
6867.806	1504.152	11.99	1.16		4
6869.851	1504.600	11.54	1.02		4
6876.868	1506.136	11.98	1.16		4
6879.815	1506.782	11.71	1.12		4
6880.810	1507.000	11.98	1.19		4
6941.653	1520.325	11.12	0.81		4
6942.643	1520.542	11.44	0.96		4
6948.626	1521.852	11.84	1.12		4
6949.703	1522.088	12.07	1.19		4
6954.647	1523.171	12.00	1.14		4
6955.587	1523.377	11.14	0.79		4
6972.626	1527.109	12.07	1.25		4
6975.619	1527.764	11.80	1.13		4
6977.624	1528.203	11.90	1.10		4
6978.608	1528.419	11.18	0.85		4
6978.651	1528.428	11.22	0.87		4
6979.615	1528.640	11.60	1.04		4
6980.615	1528.859	11.90	1.13		
6981.606	1529.076	12.05	1.20		
6982.621	1529.298	11.21	0.82		
6983.657	1529.525	11.36	0.94		
7215.750	1580.357	11.10	0.75	0.52	
7593.831	1663.162	11.48	0.70	0.38	1
7597.798	1664.031	12.00	1.13	0.76	1
7600.750	1664.677	11.67	1.02	0.75	1
7601.672	1664.879	11.94	1.13	0.74	1
7619.738	1668.836	11.81	1.15	0.76	1
7623.712	1669.706	11.65	1.09	0.76	1
7625.726	1670.147	11.95	1.21	0.82	1
7626.730	1670.367	11.08	0.81	0.60	1
7635.669	1672.925	11.14	0.79	0.59	1
7645.775	1674.538	11.41	0.93	0.63	1
7646.675	1674.736	11.64	1.15	0.73	1
7649.747	1675.408	11.17	0.85	0.59	1
7655.703	1676.713	11.70	1.09	0.74	1
7658.687	1677.366	11.02	0.85	0.46	1
7663.662	1678.456	11.25	0.85	0.62	1

UY PER

J.D.	CYCLES	V	B-V	U-B	RF
6812.984	1269.878	11.05	1.45	1.22	3
6813.979	1270.064	11.29	1.70		3
6815.962	1270.433	11.74	1.80		3
6816.967	1270.621	11.44	1.63	1.08	3
6817.907	1270.796	10.88	1.36	1.13	3

UY PER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6818.894	1270.980	11.19	1.56	1.09	3
6819.876	1271.162	11.44	1.70		3
6827.794	1272.639	11.38	1.56		4
6827.970	1272.671	11.13	1.44		4
6830.949	1273.227	11.53	1.67		4
6832.910	1273.592	11.53	1.63		4
6836.863	1274.329	11.64	1.72		2
6837.803	1274.504	11.73	1.80		4
6837.970	1274.535	11.73	1.76		4
6843.872	1275.635	11.32	1.58		4
6844.909	1275.829	10.93	1.39	1.11	-3
6845.893	1276.012	11.25	1.55		3
6846.893	1276.199	11.47	1.66		3
6847.794	1276.366	11.64	1.74		4
6847.920	1276.390	11.66	1.71		4
6848.895	1276.572	11.61	1.71		3
6849.791	1276.739	10.86	1.36	1.04	2
6849.914	1276.762	10.86	1.35		3
6852.802	1277.300	11.57	1.72		2
6853.807	1277.487	11.72	1.72		2
6856.742	1278.034	11.24	1.60		2
6857.709	1278.215	11.48	1.67		2
6858.808	1278.419	11.64	1.76		2
6866.848	1279.918	11.09	1.49		4
6867.853	1280.105	11.37	1.65		4
6869.896	1280.486	11.72	1.74		4
6876.885	1281.769	10.84	1.36		4
6879.860	1282.343	11.58	1.74		4
6880.831	1282.524	11.67	1.76		4
6942.655	1294.048	11.28	1.59		4
6948.640	1295.163	11.46	1.66		4
6951.680	1295.730	10.84	1.36		4
6953.667	1296.100	11.32	1.64		4
6954.589	1296.272	11.52	1.70		4
6971.650	1299.452	11.71	1.76		4
6972.645	1299.636	11.30	1.63		4
6977.641	1300.569	11.59	1.69		4
6978.630	1300.753	10.81	1.37		4
6978.654	1300.758	10.83	1.38		4
6980.628	1301.126	11.34	1.64		4
6981.526	1301.312	11.56	1.71		4
7215.766	1344.953	11.19	1.42	1.15	1
7267.704	1354.634	11.32	1.57	1.16	1

VX PER

J.D.	CYCLES	V	B-V	U-B	RF
6766.916	621.120	9.09	1.15	0.76	3
6768.967	621.308	9.05	1.11		3
6774.981	621.860	9.56	1.36		3
6784.993	622.779	9.71	1.42		3
6796.914	623.873	9.53	1.30		2
6797.965	623.970	9.28	1.15		2
6805.976	624.705	9.65	1.45		3
6806.955	624.796	9.63	1.37	1.02	2
6808.876	624.971	9.30	1.17	0.82	2
6808.963	624.979	9.30	1.20	0.82	3

TABLE 1 (continued)

VX PER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6809.835	625.059	9.12	1.08	0.69	2
6809.977	625.072	9.10	1.10	0.78	3
6810.888	625.156	9.13	1.17	0.64	2
6810.984	625.165	9.15	1.14	0.84	3
6811.901	625.249	9.00	1.08	0.73	2
6812.838	625.335	9.13	1.15	0.79	2
6813.766	625.420	9.23	1.24	0.91	2
6813.931	625.435	9.24	1.30	0.92	3
6814.848	625.519	9.37	1.32	0.96	2
6814.953	625.529	9.38	1.38	1.07	3
6815.840	625.610	9.50	1.37	1.06	2
6816.842	625.702	9.64	1.41	1.08	2
6817.833	625.793	9.66	1.37	1.00	2
6317.886	625.798	9.67	1.41	1.13	3
6818.822	625.884	9.47	1.26	0.88	3
6818.823	625.884	9.50	1.27	0.87	2
6819.868	625.980	9.78	1.18	0.81	3
6820.802	626.066	9.10	1.08	0.75	2
6833.861	627.265	8.96	1.05	0.79	2
6844.900	628.278	8.97	1.08	0.74	3
6845.879	628.368	9.19	1.20	0.82	3
6845.892	628.369	9.06	1.19	0.87	2
6846.860	628.458	9.23	1.26	0.91	2
6846.864	628.460	9.28	1.27	0.87	2
6848.886	628.644	9.[illegible]0	1.43	1.12	3
6849.777	628.725	9.61	1.39	1.10	2
6849.899	628.737	9.71	1.43	1.14	3
6852.767	629.000	9.28	1.13	0.77	2
6853.790	629.094	9.08	1.09	0.78	2
6856.724	629.363	9.16	1.21		2
6857.691	629.452	9.27	1.26		2

VY PER

J.D.	CYCLES	V	B-V	U-B	RF
6940.729	1254.664	11.11	1.56		4
6941.656	1254.831	10.80	1.47		4
6942.650	1255.011	11.07	1.63		4
6948.629	1256.092	11.18	1.69		4
6949.706	1256.287	11.43	1.76		4
6951.671	1256.642	11.21	1.64		4
6953.660	1257.001	11.05	1.60		4
6954.653	1257.181	11.29	1.71		4
6955.644	1257.360	11.55	1.76		4
6971.636	1260.251	11.35	1.72		4
6972.632	1260.431	11.56	1.74		4
6975.624	1260.972	11.06	1.56		4
6977.627	1261.334	11.44	1.74		4
6979.619	1261.694	10.93	1.49		4
6980.618	1261.875	10.84	1.50		4
6981.613	1262.054	11.14	1.64		4
6982.627	1262.238	11.30	1.72		4

AS PER

J.D.	CYCLES	V	B-V	U-B	RF
6807.967	1369.096	9.73	1.45	1.06	2

AS PER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6808.952	1369.294	9.96	1.52	1.18	2
6809.905	1369.486	10.11	1.53	1.18	2
6810.967	1369.699	9.21	1.18	0.91	2
6811.959	1369.899	9.49	1.31	0.99	2
6812.874	1370.083	9.77	1.42	1.06	2
6812.998	1370.108	9.77	1.46	1.07	3
6813.885	1370.286	9.90	1.53	1.14	2
6813.992	1370.308	9.93	1.55	1.20	3
6814.879	1370.486	10.12	1.56	1.14	2
6814.996	1370.510	10.06	1.50	1.13	3
6815.906	1370.693	9.22	1.15	0.91	2
6815.990	1370.710	9.19	1.15	0.88	3
6816.981	1370.909	9.47	1.33	0.94	3
6817.923	1371.098	9.78	1.44	1.08	2
6818.880	1371.291	9.97	1.52	1.12	2
6819.884	1371.493	10.10	1.54	1.14	2
6833.924	1374.316	9.97	1.53	1.21	2
6834.898	1374.512	10.03	1.49	1.23	2
6836.919	1374.918	9.48	1.33	1.02	2
6844.966	1376.537	10.03	1.46	1.07	3
6845.947	1376.734	9.24	1.16	0.91	3
6846.952	1376.936	9.52	1.35	1.00	3
6848.955	1377.339	10.01	1.52	1.20	3
6849.960	1377.541	10.01	1.45	1.13	3
6852.841	1378.120	9.78	1.48	1.10	2
6853.856	1378.324	9.98	1.54	1.14	2
6854.867	1378.528	10.00	1.52		2
6856.827	1378.922	9.53	1.33		2
6857.793	1379.116	9.77	1.44		2
6858.862	1379.331	9.97	1.55		2

AW PER

J.D.	CYCLES	V	B-V	U-B	RF
6806.995	1053.163	7.53	1.09	0.63	3
6808.000	1053.319	7.06	0.92	0.63	3
6808.960	1053.467	7.28	1.03	0.72	2
6809.007	1053.475	7.29	1.05	0.68	3
6809.918	1053.616	7.44	1.13	0.71	2
6809.990	1053.627	7.42	1.13	0.69	3
6810.973	1053.779	7.65	1.24	0.77	2
6810.996	1053.782	7.65	1.21	0.71	3
6811.967	1053.933	7.80	1.23	0.76	2
6811.976	1053.934	7.78	1.24	0.73	3
6812.884	1054.075	7.82	1.20	0.70	2
6813.006	1054.093	7.80	1.19	0.67	3
6813.892	1054.230	7.12	0.96	0.59	2
6814.001	1054.247	7.08	0.93	0.61	3
6814.888	1054.385	7.18	0.98	0.62	2
6815.004	1054.403	7.17	1.00	0.65	3
6815.915	1054.543	7.35	1.10	0.69	2
6816.803	1054.693	7.48	1.17	0.70	2
6817.931	1054.855	7.70	1.22	0.75	2
6818.888	1055.003	7.84	1.22	0.75	2
6818.958	1055.014	7.84	1.22	0.71	3
6819.893	1055.159	7.57	1.09	0.62	2
6819.927	1055.164	7.53	1.09	0.63	3

TABLE 1 (continued)

AW PER CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6833.837	1057.316	7.09	0.94	0.59	2
6834.994	1057.495	7.34	1.09	0.68	2
6836.933	1057.795	7.71	1.21	0.70	2
6844.974	1059.039	7.84	1.22	0.66	3
6845.954	1059.191	7.42	1.04	0.61	3
6846.959	1059.347	7.10	0.94	0.64	3
6848.962	1059.656	7.46	1.14	0.68	3
6849.967	1059.812	7.73	1.23	0.69	3
6852.855	1060.259	7.08	0.90	0.60	2
6853.870	1060.416	7.20	1.01	0.67	2
6856.837	1060.875	7.78	1.22		2
6857.805	1061.025	7.68	1.22		2
6858.876	1061.190	7.44	1.04		2
7240.804	1120.281	7.05	0.93	0.53	1
7273.868	1125.397	7.22	0.95	0.56	1

DW PER

J.D.	CYCLES	V	B-V	U-B	RF
6832.903	1871.962	11.83	1.25		4
6837.798	1873.303	11.35	1.07		4
6837.943	1873.342	11.38	1.11		4
6843.868	1874.966	11.79	1.26		4
6847.791	1876.040	11.66	1.15		4
6866.843	1881.260	11.26	1.04		4
6867.845	1881.534	11.63	1.20		4
6869.889	1882.094	11.41	1.06		4
6876.880	1884.010	11.76	1.20		4
6879.852	1884.024	11.80	1.28		4
6880.826	1885.091	11.44	1.07		4
6940.732	1901.503	11.60	1.18		4
6941.583	1901.736	11.77	1.28		4
6948.633	1903.667	11.74	1.29		4
6949.710	1903.962	11.91	1.30		4
6951.676	1904.501	11.55	1.22		4
6954.659	1905.318	11.35	1.07		4
6971.645	1909.972	11.88	1.25		4
6972.640	1910.244	11.28	1.04		4
6977.638	1911.614	11.71	1.25		4
6978.627	1911.885	11.84	1.32		4
6979.625	1912.158	11.20	0.98		4
6980.624	1912.432	11.52	1.19		4
6981.623	1912.705	11.78	1.28		4
6982.635	1912.983	11.82	1.27		4

X PUP

J.D.	CYCLES	V	B-V	U-B	RF
4833.297	186.175	8.41	1.38		7
4834.260	186.212	8.47	1.41		7
4835.237	186.250	8.55	1.45		7
4865.262	187.407	8.83	1.58		7
4867.241	187.483	8.90	0.85		7
4869.249	187.560	8.97	1.55		7
4905.225	188.946	8.02	0.99		-7
4906.212	188.984	8.19	1.01		-7
4907.215	189.023	8.28	1.16		-7
5161.328	198.811	8.47	1.09	0.76	5

X PUP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5165.330	198.965	7.98	1.05	0.72	5
5166.356	199.005	8.08	1.10	0.82	5
5187.390	199.815	8.36	1.03		-7
5188.374	199.853	7.91	0.87		7
5195.318	200.120	8.33	1.32	1.03	5
5201.277	200.350	8.71	1.51	1.21	5
5208.274	200.619	9.03	1.52	1.21	5
5209.297	200.659	9.11	1.55	1.23	5
5242.253	201.928	7.96	0.96	0.61	5
7015.628	270.237	8.48	1.42	1.17	1
7020.646	270.431	8.82	1.55	1.42	1
7022.635	270.507	8.98	1.53	1.42	1
7023.627	270.545	8.97	1.54	1.44	1
7049.627	271.547	8.86	1.52	1.48	1
7315.804	281.800	8.85	1.30	0.96	1
7600.960	292.784	9.05	1.38	1.12	1
7601.919	292.821	8.48	1.11	0.82	1
7635.930	294.131	8.36	1.27	1.04	1
7648.946	294.632	9.01	1.52	1.32	1
7653.904	294.823	8.41	1.04	0.77	1
7654.879	294.861	7.94	0.85	0.62	1
7656.770	294.934	8.01	0.92	0.66	1
7661.798	295.127	8.29	1.28	1.03	1
7663.805	295.205	8.41	1.37	1.17	1

RS PUP

J.D.	CYCLES	V	B-V	U-B	RF
3764.979	90.986	7.09	1.62		9
3775.915	91.250	7.57	1.71		9
3776.906	91.274	7.61	1.70		9
3777.943	91.299	7.63	1.72		9
3778.917	91.322	7.57	1.67		9
3796.896	91.757	6.78	1.43		9
4451.988	107.588	6.49	1.17		9
4469.100	108.001	7.11	1.61		9
4470.087	108.025	7.10	1.65		9
4472.083	108.074	7.23	1.63		9
4529.260	109.455	7.13	1.39		7
4530.239	109.479	6.93	1.27		7
4531.205	109.502	6.76	1.20		7
4532.214	109.527	6.59	1.14		7
4533.215	109.551	6.57	1.11		7
4534.197	109.575	6.57	1.14		7
4535.194	109.599	6.54	1.14		7
4536.213	109.623	6.63	1.22		7
4820.014	116.482	6.88	1.30		9
4826.087	116.629	6.53	1.19		9
4828.931	116.697	6.67	1.33		9
4829.996	116.723	6.68	1.38		9
4833.046	116.797	6.79	1.44		9
4834.026	116.820	6.86	1.46		9
4840.051	116.966	7.06	1.58		9
4840.991	116.989	7.09	1.60		9
4844.035	117.062	7.20	1.69		9
4844.978	117.085	7.20	1.67		9
4847.985	117.158	7.36	1.67		9
4855.979	117.351	7.52	1.71		9

TABLE 1 (continued)

RS PUP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4859.003	117.424	7.38	1.55		9
4866.271	117.600	6.49	1.14		7
4867.298	117.624	6.54	1.20		7
4867.964	117.641	6.59	1.21		9
4869.340	117.674	6.68	1.31		7
4871.987	117.738	6.68	1.39		9
4872.972	117.762	6.72	1.45		9
4907.230	118.589	6.62	1.18		7
4908.216	118.613	6.61	1.19		-7
4913.216	118.734	6.63	1.38		-7
5160.025	124.699	6.62	1.33		9
5161.390	124.732	6.70	1.36	1.05	5
5169.365	124.924	7.01	1.58	1.31	5
5201.314	125.696	6.65	1.31	1.01	5
5208.335	125.866	6.90	1.53	1.24	5
5246.235	126.782	6.78	1.45	1.13	5
5270.196	127.361	7.63	1.68	1.39	5
7315.837	176.796	6.78	1.46	1.23	1
7600.988	183.688	6.58	1.25	0.98	1
7626.944	184.315	7.57	1.73	1.65	1
7634.984	184.509	6.81	1.27	0.93	1
7635.951	184.532	6.64	1.20	0.85	1
7648.962	184.847	6.84	1.50	1.26	1
7655.933	184.967	7.04	1.59	1.45	1
7656.904	185.039	7.14	1.68	1.49	1
7661.818	185.158	7.32	1.72	1.58	1
7663.826	185.206	7.41	1.73	1.62	1

ST PUP

J.D.	CYCLES	V	B-V	U-B	RF
5164.321	271.806	10.22	0.95	0.72	5
5165.293	271.858	10.40	0.96	0.67	5
5166.308	271.911	10.52	0.97	0.66	5
5167.313	271.964	10.62	0.94	0.64	5
5169.313	272.069	10.68	0.80	0.46	5
5177.300	272.490	9.76	0.65	0.36	5
5195.293	273.437	9.87	0.69	0.39	5
5209.266	274.172	9.34	0.33	0.09	5
5238.217	275.696	10.22	0.88	0.55	5
5239.218	275.748	10.35	0.89	0.55	5
5242.220	275.906	10.60	0.93	0.48	5
5257.208	276.695	10.45	0.90	0.66	5
5532.394	291.179	9.92	0.77		7
5535.316	291.332	10.36	0.90		7
5549.349	292.071	9.83	0.66		7
5574.244	293.381	10.50	0.90		7
5580.269	293.698	9.38	0.33		7
5595.237	294.486	10.72	0.76		7
5616.194	295.589	9.76	0.36		-7
5617.196	295.642	9.35	0.33		-7

VW PUP

J.D.	CYCLES	V	B-V	U-B	RF
4833.286	1127.997	11.69	1.21		7
4885.227	1140.119	11.80	1.20		-7
5164.339	1205.258	11.41	1.18	0.85	-5

VW PUP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5165.324	1205.488	11.00	1.06	0.69	-5
5166.340	1205.725	11.36	1.21	0.93	-5
5167.344	1205.960	11.57	1.31	0.92	-5
5195.309	1212.486	11.09	1.01	0.71	-5
5209.283	1215.747	11.40	1.22	0.87	-5
5223.270	1219.012	11.63	1.26		7
5238.251	1222.508	11.20	0.96	0.63	-5
5239.238	1222.738	11.37	1.23	0.87	-5
5242.243	1223.440	11.02	0.93	0.64	-5
5555.402	1296.525	11.12	0.99		7
5567.320	1299.306	11.28	1.11		7
5573.346	1300.713	11.40	1.15		7
5576.292	1300.934	11.58	1.24		7
5595.261	1305.832	11.56	1.17		7
5600.242	1309.090	11.66	1.29		7
5622.215	1312.118	11.63	1.22		7
5624.193	1312.580	11.22	1.05		7
5627.205	1313.282	11.43	1.16		7

VX PUP

J.D.	CYCLES	V	B-V	U-B	RF
5161.322	1713.746	8.35	0.72	0.45	5
5166.345	1715.414	8.31	0.75	0.51	5
5201.272	1727.011	8.41	0.71	0.43	5
5208.267	1729.333	8.05	0.59	0.34	5
5209.293	1729.674	8.51	0.81	0.52	5
5242.249	1740.616	8.31	0.70	0.66	5
6857.011	2276.776	8.67	1.21		2
6859.026	2277.445	8.40	0.69		2
7015.622	2329.440	8.23	0.59	0.30	1
7020.642	2331.107	8.11	0.53	0.30	1
7022.631	2331.768	8.39	0.63	0.36	1
7023.633	2332.100	8.44	0.67	0.37	1
7043.600	2338.730	8.48	0.71	0.36	1
7049.621	2340.729	8.51	0.73	0.50	1
7050.626	2341.063	8.24	0.52	0.32	1
7052.618	2341.724	8.32	0.61	0.34	1
7315.810	2429.114	8.05	0.52	0.26	1

VZ PUP

J.D.	CYCLES	V	B-V	U-B	RF
4517.213	195.010	9.03	0.79		7
4519.232	195.097	9.11	0.87		7
4520.183	195.138	9.32	0.98		-7
4865.274	210.036	9.02	0.82		7
4886.210	210.940	10.09	1.30		7
5164.352	222.947	9.35	1.30	0.97	5
5165.340	222.990	9.22	0.97	0.62	5
5166.361	223.034	8.90	0.85	0.55	5
5168.386	223.985	9.39	0.98		7
5195.323	224.284	9.44	1.21	0.87	5
5208.279	224.844	10.23	1.43	1.16	-5
5209.306	224.888	10.25	1.37	1.04	-5
5223.211	225.488	9.79	1.43	1.14	6
5238.261	226.139	9.20	0.98	0.64	5

TABLE 1 (continued)

VZ PUP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5239.243	226.180	9.29	1.08	0.75	5
5242.258	226.311	9.47	1.25	0.90	5
5256.225	226.914	10.24	1.47	1.21	-5
5256.231	226.914	10.17	1.39		7

WW PUP

J.D.	CYCLES	V	B-V	U-B	RF
4835.246	876.471	10.27	0.73		7
4869.259	882.636	10.23	0.78		7
4885.237	885.532	10.16	0.66		7
5165.346	936.307	10.95	1.12	0.87	-5
5166.367	936.492	10.04	0.74	0.46	5
5194.376	941.569	10.15	0.71		7
5195.332	941.742	10.40	0.89	0.61	5
5209.311	944.276	10.95	1.08	0.67	-5
5238.268	949.525	10.07	0.68	0.40	5
5239.252	949.704	10.30	0.86	0.59	5
5242.267	950.250	10.99	1.10	0.88	-5
5547.450	1005.570	10.17	0.70		7
5555.411	1007.013	10.73	1.03		7
5567.338	1009.1[illegible]	10.97	1.13		7
5568.352	1009.359	10.95	1.04		7
5573.375	1010.269	11.05	1.10		7
5574.304	1010.437	10.52	0.8[illegible]		7
5624.203	1019.482	10.17	0.73		7
5629.214	1020.391	10.79	0.94		7
7015.623	1271.703	10.36	0.86	0.51	1
7020.651	1272.612	10.20	0.75	0.47	1
7022.642	1272.973	10.73	0.99	0.65	1
7023.622	1273.151	10.94	1.10	0.75	1
7315.821	1326.117	10.78	1.10	0.79	1
7600.966	1377.804	10.52	0.93	0.61	1
7601.924	1377.978	10.66	1.03	0.68	1
7648.954	1386.503	10.07	0.66	0.47	1
7654.885	1387.578	10.15	0.71	0.49	1
7661.804	1388.832	10.56	0.97	0.63	1

WX PUP

J.D.	CYCLES	V	B-V	U-B	RF
4513.205	504.953	9.21	0.99		7
4522.181	505.957	9.13	0.90		7
4523.184	506.069	8.89	0.82		7
4533.202	507.190	8.68	0.88		7
4835.335	540.994	9.06	1.03		-7
5161.345	577.469	9.03	1.08	0.76	5
5164.357	577.805	9.30	1.22	0.95	5
5177.318	579.256	8.88	0.94	0.67	5
5195.336	581.272	8.90	0.96	0.65	5
5201.285	581.937	9.22	1.05	0.78	5
5208.288	582.721	9.33	1.21	0.93	5
5209.320	582.836	9.42	1.17	0.93	5
5242.271	586.523	9.07	1.09	0.83	5
5246.211	586.964	9.13	1.01	0.71	5
5256.240	588.086	8.76	0.84		-7
5257.215	588.195	8.81	0.90	0.60	5

WX PUP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5568.365	623.010	9.05	0.92		7
5632.196	630.149	12.31	1.35		-7

WY PUP

J.D.	CYCLES	V	B-V	U-B	RF
4513.214	859.529	10.87	0.90		7
4523.199	861.430	11.02	1.00		7
4529.203	862.574	10.61	0.77		7
4530.213	862.766	10.28	0.66		7
4531.192	862.953	10.56	0.84		7
4834.266	920.673	10.20	0.58		7
4835.345	920.878	10.42	0.77		7
4839.228	921.617	10.44	0.68		7
4840.236	921.809	10.37	0.69		7
4861.310	925.823	10.37	0.72		7
4865.282	926.579	10.61	0.77		7
4866.248	926.763	10.25	0.63		7
4867.251	926.954	10.54	0.84		7
5165.372	983.731	10.20	0.66	0.40	5
5238.290	997.618	10.38	0.73	0.38	5
5239.271	997.804	10.30	0.72	0.47	5
5242.290	998.379	10.74	1.24	0.94	5

WZ PUP

J.D.	CYCLES	V	B-V	U-B	RF
4513.225	897.724	10.17	0.72		7
4519.255	898.923	10.37	0.85		7
4523.214	899.711	10.19	0.71		7
4532.198	901.498	10.03	0.62		7
4835.360	961.799	10.21	0.83		7
4865.290	967.753	10.15	0.78		7
4867.272	968.147	10.58	0.98		7
4869.280	968.546	9.88	0.59		7
4893.228	973.310	10.76	0.98		7
5239.278	1042.143	10.55	0.99	0.86	-5
5242.296	1042.743	10.08	0.82	0.55	5
5246.230	1043.525	9.86	0.56	0.37	5
5256.241	1045.517	9.90	0.62	0.35	5
5256.248	1045.518	9.97	0.61		7

AD PUP

J.D.	CYCLES	V	B-V	U-B	RF
4519.244	332.444	9.31	0.75		7
4520.195	332.514	9.71	0.77		-7
4520.253	332.518	9.50	0.86		-7
4531.184	333.322	10.04	1.08		7
4532.178	333.396	9.46	0.77		7
4833.304	355.547	9.56	0.92		7
4847.227	356.571	9.59	0.98		7
5165.357	379.973	10.21	1.40	1.14	-5
5195.339	382.179	10.21	1.25	0.98	-5
5238.274	385.337	10.05	1.15	0.77	5
5239.257	385.410	9.31	0.77	0.42	5
5242.275	385.632	9.65	1.06	0.76	5

TABLE 1 (continued)

AP PUP

J.D.	CYCLES	V	B-V	U-B	RF
4847.256	953.375	7.12	0.66		7
4867.262	957.310	7.26	0.74		7
4893.215	962.415	7.16	0.64		7
5161.352	1015.153	7.66	1.01	0.74	5
5169.325	1016.721	7.38	0.92	0.64	5
5176.330	1018.099	7.64	1.03	0.76	5
5177.322	1018.294	7.30	0.81	0.51	5
5188.430	1020.479	7.19	0.72		7
5201.290	1023.008	7.62	1.03	0.76	5
5208.301	1024.387	7.03	0.70	0.43	5
5209.329	1025.589	7.23	0.84	0.56	5
5223.323	1027.342	7.19	0.59		7
5247.212	1032.040	7.63	1.02	0.76	5
5257.226	1034.010	7.61	1.02	0.76	5
5532.444	1088.141	7.70	1.01		7
5535.392	1088.720	7.38	0.89		7
5626.216	1106.58	7.24	0.81		7
5629.224	1107.176	7.67	0.95		7
5640.190	1109.332	7.20	0.77		7

AQ PUP

J.D.	CYCLES	V	B-V	U-B	RF
5161.364	172.878	8.27	1.32	0.97	5
5169.331	173.145	8.66	1.54	1.25	5
5208.305	174.450	8.96	1.55	1.22	5
5209.336	174.485	9.04	1.54	1.23	5
5223.239	174.950	8.50	1.41	1.02	6
5238.295	175.455	9.01	1.50	1.15	5
5239.275	175.488	9.01	1.50	1.18	5
5267.205	176.423	8.99	1.55	1.20	5
5270.213	176.524	9.05	1.48	1.22	5

AT PUP

J.D.	CYCLES	V	B-V	U-B	RF
5169.360	775.621	7.54	0.60	0.35	5
5201.310	780.415	8.38	0.99	0.71	5
5208.331	781.469	8.19	0.90	0.61	5
5209.366	781.624	7.59	0.64	0.39	5
5246.248	787.158	8.23	1.01	0.74	5
5256.260	788.660	7.55	0.62	0.37	5
5267.220	790.304	8.38	1.06	0.81	5
5535.422	830.546	7.82	0.69		7
5547.474	832.354	8.45	1.04		7
5573.401	836.244	8.37	1.03		7
5574.316	836.382	8.45	1.03		7
5580.324	837.283	8.41	1.05		7
5595.318	839.533	7.90	0.71		7
5608.295	841.480	8.17	0.85		7
5609.278	841.627	7.53	0.56		7
5612.236	842.071	8.13	0.94		7
5616.231	842.671	7.61	0.62		7
5622.234	843.571	7.61	0.60		7
5629.231	844.621	7.55	0.56		7
5636.191	845.665	7.61	0.61		7
5640.197	846.267	8.40	1.06		7
5641.192	846.416	8.33	0.98		7

AT PUP CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5644.206	846.868	7.91	0.81		7
7601.930	1140.609	7.53	0.58	0.31	1
7626.935	1144.361	8.34	1.09	0.70	1
7634.976	1145.567	7.71	0.64	0.36	1
7635.944	1145.713	7.62	0.63	0.37	1
7653.925	1148.410	8.38	0.97	0.71	1
7654.894	1148.556	7.82	0.66	0.38	1
7656.893	1148.856	7.90	0.79	0.48	1
7661.811	1149.594	7.61	0.57	0.32	1
7663.819	1149.895	7.91	0.82	0.52	1

BM PUP

J.D.	CYCLES	V	B-V	U-B	RF
5165.365	717.561	10.93	1.34	1.02	-5
5223.224	725.599	11.06	1.37	0.96	6
5238.285	727.691	11.28	1.60	1.07	-5
5239.261	727.827	11.24	1.40	1.14	-5
5242.283	728.247	10.63	1.14	0.74	5
5256.235	730.185	10.60	1.13	0.81	5
5270.203	732.125	10.44	1.06	0.69	5

BN PUP

J.D.	CYCLES	V	B-V	U-B	RF
5239.291	383.157	10.27	1.41	1.09	-5
5242.307	383.378	9.21	0.87	0.57	5
5256.246	384.397	9.35	0.94	0.62	5
5257.231	384.469	9.48	1.05	0.73	5
5267.215	385.199	10.10	1.30	0.94	5
5270.218	385.419	9.39	0.98	0.68	5

CO PUP

J.D.	CYCLES	V	B-V	U-B	RF
4510.232	281.552	11.02	0.87		7
4513.235	281.739	10.56	0.75		7
4530.248	282.801	10.49	0.88		7
4544.201	283.672	10.61	0.73		7
4833.344	301.722	10.47	0.80		7
4834.295	301.781	10.59	0.75		-7
4835.417	301.851	10.45	0.93		7
5164.371	322.386	10.80	1.39	1.22	-5
5239.296	327.064	10.91	1.24	1.00	-5
5246.259	327.498	10.97	0.89	0.55	-5
5256.266	328.123	11.16	1.30	1.04	-5
5267.225	328.807	10.43	0.96	0.65	5
5270.231	328.995	10.76	1.12	0.88	-5
5275.190	329.304	11.22	1.07	0.64	6
5535.405	345.548	10.57	0.77		7
5555.444	346.799	10.47	1.02		7
5568.398	347.608	10.50	0.78		7
5573.414	347.921	10.77	1.14		7
5574.325	347.978	10.93	1.22		7
5580.349	348.354	11.16	0.91		7

TABLE 1 (continued)

EK PUP

J.D.	CYCLES	V	B-V	U-B	RF
4517.227	1720.278	10.65	0.82		7
4533.190	1726.357	10.61	0.82		7
4812.389	1832.684	10.58	0.81		7
4835.257	1841.392	10.51	0.78		7
4869.269	1854.345	10.54	0.81		7
4885.246	1860.430	10.56	0.71		-7
4895.226	1864.230	10.72	0.88		7
5223.291	1989.166	10.82	0.91		7
5547.462	2112.619	10.49	0.81		7
5573.380	2122.492	10.46	0.76		7
5512.224	2137.282	10.68	0.84		7

RV SCO

J.D.	CYCLES	V	B-V	U-B	RF
4564.437	753.042	7.11	1.08		7
4579.342	755.501	7.00	0.90		7
4580.385	755.673	6.73	0.84		7
4901.548	808.659	6.70	0.81		7
4925.461	812.604	6.63	0.76		7
4932.328	813.737	6.83	0.90		7
5167.651	852.561	6.65	0.80	0.50	5
5176.616	854.040	7.14	1.09	0.79	5
5177.593	854.201	7.36	1.17	0.87	5
5184.644	855.364	7.42	1.17	0.86	5
5188.668	856.028	7.13	1.07	0.78	5
5195.674	857.184	7.36	1.16	0.88	5
5201.619	858.165	7.32	1.15	0.86	5
5205.302	858.822	6.93	0.97	0.66	5
5208.634	859.322	7.45	1.18	0.89	5
5238.564	864.260	7.41	1.18	0.88	5
5241.571	864.756	6.84	0.92	0.61	5
5242.585	864.923	7.05	1.04	0.75	5
5243.623	865.095	7.25	1.12	0.82	5
5244.583	865.253	7.40	1.18	0.88	5
5245.581	865.418	7.35	1.08	0.77	5
5246.580	865.582	6.66	0.78	0.48	5
5306.297	875.434	7.27	1.07	0.76	6
5331.248	879.551	6.73	0.79		7
5343.222	881.526	6.87	0.87		7
7083.628	1168.692	6.72	0.84	0.47	1
7087.784	1169.345	7.54	1.20	0.89	1
7094.780	1170.499	7.00	0.94	0.51	1
7099.847	1171.335	7.46	1.18	0.87	1
7100.757	1171.485	7.02	0.95	0.51	1
7102.788	1171.820	6.92	0.98	0.61	1
7132.734	1176.762	7.00	0.96	0.67	1
7135.677	1177.246	7.51	1.23	0.91	1
7142.657	1178.398	7.37	1.13	0.76	1
7143.643	1178.560	6.72	0.77	0.51	1
7145.651	1178.896	7.08	1.06	0.70	1
7147.637	1179.219	7.35	1.16	0.85	1
7148.630	1179.383	7.42	1.12	0.76	1
7149.689	1179.558	6.75	0.82	0.49	1
7453.700	1229.714	6.79	0.93	0.47	1
7455.733	1230.049	7.12	1.06	0.76	1
7458.706	1230.540	6.81	0.82	0.53	1

RV SCO CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7460.714	1230.871	7.01	1.01	0.64	1
7462.733	1231.204	7.37	1.17	0.79	1
7469.774	1232.365	7.50	1.17	0.89	1
7470.725	1232.522	7.00	0.92	0.61	1
7472.738	1232.855	6.95	1.00	0.65	1
7472.815	1232.867	7.02	0.88	0.61	1
7523.643	1241.253	7.54	1.27	0.97	1

RY SCO

J.D.	CYCLES	V	B-V	U-B	RF
5205.651	256.320	7.65	1.33	0.93	5
5216.620	256.860	8.34	1.63	1.24	6
5243.669	258.192	7.63	1.26	0.88	5
5244.623	258.239	7.50	1.22	0.86	5
5245.626	258.288	7.59	1.27	0.90	5
5246.641	258.338	7.06	1.31	0.93	5
5250.609	258.534	7.95	1.50	1.15	5
5256.541	258.826	8.34	1.70	1.31	5
5304.302	261.177	7.69	1.31	1.00	6
5305.344	261.229	7.49	1.25	0.95	6
5306.321	261.276	7.54	1.25	0.98	6
5309.359	261.426	7.77	1.41	1.09	6
5310.334	261.474	7.84	1.44	1.11	6
7455.785	367.114	8.22	1.44	0.84	1
7458.754	367.260	7.56	1.26	0.87	1
7472.773	367.950	8.31	1.65		1
7533.629	370.947	8.39	1.66	1.20	1

CO SCO

J.D.	CYCLES	V	B-V	U-B	RF
4565.483	149.870	12.25	0.91		7
4567.522	149.937	12.26	0.93		7
4568.434	149.967	12.23	0.94		7
4570.439	150.033	12.26	0.97		7
4961.283	162.863	12.39	0.77		-7
5251.637	172.394	13.10	1.41		7
5281.458	173.373	13.14	1.27		7

KQ SCO

J.D.	CYCLES	V	B-V	U-B	RF
4561.488	158.995	9.81	1.95		7
4564.428	159.097	9.33	1.71		7
4565.469	159.133	10.10	0.42		-7
4567.480	159.203	9.51	1.84		7
4572.410	159.375	9.77	2.09		7
4587.296	159.894	10.21	2.14		7
5184.640	180.715	10.26	2.07	1.71	-5
5188.662	180.855	10.24	2.06	1.84	-5
5201.615	181.307	9.70	1.86	1.53	-5
5241.566	182.699	10.26	2.10	1.86	-5
5242.581	182.735	10.29	2.13	1.74	-5
5243.614	182.771	10.27	2.04	1.70	-5
5244.579	182.004	10.29	2.00	1.67	-5
5245.576	182.839	10.27	1.99	1.60	-5
5246.586	182.874	10.25	2.03	1.56	-5

TABLE I (continued)

KQ SCO CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5250.586	183.014	9.81	1.76	1.38	-5
5251.585	183.048	9.51	1.76		7
5256.521	183.220	9.53	1.78	1.39	-5
5277.394	183.948	10.14	1.93	1.72	6
5281.438	184.089	9.37	1.74		7
5285.405	184.227	9.56	1.89		7
5308.372	185.028	9.65	1.83		7
5309.267	185.059	9.46	1.66	1.33	6
5309.284	185.060	9.46	1.76		7
5310.262	185.094	9.38	1.73		7
5311.281	185.129	9.33	1.65	1.36	6

470 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4563.517	280.633	10.83	2.31		7
4564.448	280.691	10.86	2.30		7
4575.440	281.366	10.83	2.14		7
4576.403	281.426	10.50	2.04		7
4577.462	281.491	10.59	2.07		7
4578.400	281.548	10.67	2.14		7
4950.345	304.421	10.53	2.02		7
5308.386	326.439	10.49	2.02		7
5372.246	330.366	10.83	2.21		7

482 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4579.396	1011.395	7.84	0.98		-7
4585.340	1012.706	8.14	1.13		7
4586.333	1012.928	8.27	1.14		7
4587.341	1013.150	7.68	0.83		7
4886.580	1079.239	7.66	0.82		7
4905.622	1083.445	7.88	0.98		7
4931.365	1089.131	7.75	0.86		7
4950.435	1093.342	7.76	0.91		7
5176.637	1143.301	7.68	0.88	0.60	5
5201.672	1148.830	8.22	1.14	0.83	5
5205.623	1149.703	8.16	1.12	0.84	5
5208.648	1150.371	7.80	0.96	0.56	5
5238.589	1156.983	8.22	1.10	0.77	5
5243.651	1158.101	7.86	0.90	0.59	5
5244.606	1158.312	7.71	0.89	0.58	5
5245.622	1158.537	8.01	1.05	0.77	5
5246.646	1158.763	8.20	1.13	0.83	5
5256.657	1160.974	8.20	1.11	0.80	5
7453.760	1646.221	7.62	0.86	0.49	1
7455.760	1646.663	9.09	1.08	0.81	1
7458.733	1647.319	7.76	0.94	0.58	1
7462.771	1648.211	7.64	0.83	0.59	1
7470.746	1649.973	8.41	1.15	0.83	1
7472.758	1650.417	7.85	0.97	0.63	1
7533.622	1663.859	8.29	1.15	0.82	1

500 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4562.477	489.712	8.39	1.16		7

500 SCO CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4563.527	489.825	8.65	1.32		7
4564.476	489.927	8.75	1.40		7
4567.512	490.253	9.10	1.48		7
4570.423	490.565	8.56	1.21		7
4572.448	490.782	8.61	1.29		7
4906.597	526.648	8.47	1.16		7
4907.418	526.736	8.49	1.22		7
4925.472	528.674	8.40	1.16		7
4943.305	530.580	8.58	1.21		7
5201.646	558.317	9.00	1.36	1.01	5
5205.637	558.746	8.48	1.20	0.86	5
5216.608	559.923	8.77	1.40	1.09	6
5243.660	562.827	8.66	1.30	0.97	5
5244.620	562.930	8.75	1.35	1.03	5
5245.600	563.035	8.93	1.45	1.13	5
5248.659	563.149	9.09	1.49	1.18	5
5250.598	563.572	8.57	1.20	0.87	5
5256.536	564.209	9.14	1.47	1.16	5
5304.275	569.333	8.94	1.36	1.02	6
5305.333	569.446	8.64	1.22	0.89	6
5306.305	569.551	8.58	1.22	0.93	6
5309.355	569.878	8.70	1.35	1.06	6
5310.329	569.982	8.85	1.40	1.11	6
7083.865	760.345	8.85	1.32	0.93	1
7100.864	762.169	9.11	1.52	1.23	1
7142.664	766.656	8.44	1.20	0.80	1
7143.739	766.771	8.56	1.27	0.95	1
7145.667	766.978	8.90	1.46	1.17	1
7147.647	767.191	9.11	1.53	1.22	1
7148.645	767.298	9.04	1.44	1.05	1
7160.651	768.587	8.62	1.26	0.81	1
7453.790	800.051	9.01	1.47	1.16	1
7455.772	800.263	9.07	1.52	1.17	1
7458.744	800.582	8.62	1.24	0.88	1
7472.765	802.087	9.00	1.50	1.24	1
7523.663	807.550	8.67	1.26	0.93	1
7533.636	808.621	8.59	1.22	0.86	1

542 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4570.410	299.935	13.23	0.71		7
4572.433	300.068	12.55	0.78		7
4573.386	300.130	12.69	0.96		7
4952.322	324.998	12.73	0.63		7
4953.324	325.064	12.79	0.67		-7
5302.350	347.969	12.88	0.65		7
5303.367	348.036	12.63	0.67		7

636 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4561.521	671.145	6.54	0.93		7
4564.458	671.577	6.91	1.07		7
4579.386	673.773	6.67	0.90		7
4585.330	674.648	6.89	1.04		7
4587.314	674.940	6.41	0.78		7

TABLE 1 (continued)

636 SCO CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4885.522	718.615	6.56	0.85		7
4886.570	718.970	6.44	0.82		7
4901.666	721.191	6.66	0.92		-7
4906.543	721.908	6.40	0.78		7
4907.407	722.035	6.50	0.87		7
5176.632	761.647	6.90	1.05	0.79	5
5184.661	762.828	6.53	0.85	0.57	5
5201.642	765.327	6.75	1.02	0.76	5
5205.619	765.912	6.40	0.80	0.53	5
5208.639	766.356	6.76	1.03	0.76	5
5236.631	770.475	6.86	1.08	0.82	5
5238.581	770.762	6.67	0.91	0.63	5
5241.588	771.204	6.61	0.97	0.72	5
5242.672	771.364	6.76	1.03	0.77	5
5243.639	771.506	6.88	1.08	0.81	5
5244.602	771.647	6.88	1.05	0.77	5
5245.618	771.797	6.59	0.89	0.60	5
5246.633	771.946	6.41	0.81	0.54	5
5256.653	773.421	6.79	1.06	0.79	5

X SCT

J.D.	CYCLES	V	B-V	U-B	RF
4565.563	1087.539	9.52	1.00		7
4573.521	1089.434	9.88	1.12		7
4574.467	1089.660	9.71	1.05		7
4905.646	1168.548	9.53	0.97		7
4922.541	1172.572	9.55	0.99		7
5308.512	1264.513	9.53	0.92		7
5358.255	1276.362	10.25	1.29		7
5363.284	1277.559	9.52	0.98		-7
6735.758	1604.489	9.62	1.02		2
6735.840	1604.509	9.54	0.97		2
6736.794	1604.736	9.89	1.16		2
6736.912	1604.764	9.93	1.13		2
6744.727	1606.626	9.64	1.03		2
6745.742	1606.867	10.08	1.24		2
6747.730	1607.341	10.34	1.27		2
6748.724	1607.578	9.58	1.00		2
6749.727	1607.817	9.95	1.23		2
6753.753	1608.776	9.94	1.15		2
6759.760	1610.207	10.41	1.34		2
6761.759	1610.683	9.80	1.13		2
6765.758	1611.635	9.73	1.07		2
6802.772	1620.452	9.75	1.08	0.68	2
6806.703	1621.389	10.23	1.24	0.74	2
6815.740	1623.541	9.48	0.97	0.74	2
6834.646	1628.045	10.24	1.35	0.85	2
6834.679	1628.053	10.29	1.31	0.87	2
6836.637	1628.519	9.53	0.96	0.75	2
7053.901	1680.273	10.48	1.28	0.98	1
7130.771	1698.583	9.60	1.02	0.49	1
7143.775	1701.681	9.74	1.08	0.76	1
7145.724	1702.145	10.35	1.37	0.97	1
7148.696	1702.853	10.05	1.22	0.84	1
7149.719	1703.097	10.26	1.37	0.93	1
7159.665	1705.466	9.70	1.07	0.69	1
7162.679	1706.184	10.38	1.36	0.96	1

X SCT CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7198.647	1714.751	9.89	1.17	0.80	1
7200.648	1715.228	10.40	1.35	0.98	1
7201.630	1715.462	9.78	1.05	0.69	1
7455.922	1776.036	10.22	1.33	1.02	1
7458.874	1776.739	9.90	1.16	0.85	1

Y SCT

J.D.	CYCLES	V	B-V	U-B	RF
4565.574	441.481	9.37	1.52		7
4573.532	442.250	9.54	1.51		7
4574.479	442.342	9.51	1.40		7
4905.660	474.366	9.21	1.32		7
4906.617	474.459	9.37	1.49		7
4947.452	478.407	9.24	1.39		7
4988.213	482.359	9.27	1.37		7
6731.772	650.947	10.02	1.83		2
6734.838	651.437	9.34	1.47		2
6742.713	652.005	9.97	1.76		2
6743.799	652.110	9.77	1.63		2
6744.751	652.202	9.58	1.54		2
6745.755	652.299	9.52	1.52		2
6746.706	652.391	9.29	1.43		2
6747.737	652.491	9.49	1.54		2
6749.735	652.684	9.68	1.72		2
6753.759	653.073	9.80	1.67		2
6755.807	653.271	9.58	1.55		2
6757.716	653.456	9.43	1.53		2
6758.730	653.554	9.56	1.60		2
6793.791	656.944	10.03	1.84	1.48	2
6808.720	658.388	9.17	1.36	0.93	2
6811.735	658.679	9.71	1.70	1.32	2
6813.658	658.865	9.94	1.85	1.49	2
6818.748	659.359	9.21	1.39	0.98	2
6833.677	660.743	9.89	1.75	1.47	2
6834.660	660.896	9.98	1.84	1.45	2
6836.644	661.088	9.79	1.62	1.19	2
6845.624	661.956	10.01	1.78	1.46	2
6853.650	662.732	9.74	1.74		2
7601.585	735.056	9.98	1.68	1.38	1

Z SCT

J.D.	CYCLES	V	B-V	U-B	RF
4570.504	354.264	9.22	1.19		7
4906.628	380.318	9.26	1.24		7
4931.449	382.241	9.16	1.15		7
4943.431	383.170	9.22	1.11		7
5302.414	410.995	9.74	1.41		7
5303.401	411.072	9.65	1.36		7
6731.761	521.785	10.03	1.63		2
6735.756	522.095	9.68	1.32		2
6736.854	522.180	9.17	1.13		2
6742.727	522.635	9.86	1.56		2
6743.849	522.722	10.12	1.61		2
6744.792	522.795	10.22	1.64		2
6745.769	522.871	10.12	1.56		2
6746.721	522.945	9.95	1.49		2

TABLE 1 (continued)

Z SCT CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6747.749	523.025	9.80	1.33		2
6749.775	523.182	9.16	1.09		2
6753.791	523.493	9.58	1.47		2
6757.730	523.798	10.12	1.67		2
6758.752	523.877	10.08	1.59		2
6790.855	526.366	9.40	1.31	0.95	2
6802.819	527.293	9.22	1.17	0.99	2
6811.792	527.989	9.72	1.41	0.98	2
6814.726	528.177	9.18	1.08	0.71	2
6833.809	529.695	9.92	1.60	1.49	2
6834.668	529.762	10.03	1.61	1.51	2
6846.613	530.688	9.92	1.62	1.54	2
6853.661	531.234	9.10	1.17	0.82	2
7601.591	589.207	9.06	1.06	0.83	1

RU SCT

J.D.	CYCLES	V	B-V	U-B	RF
5309.401	269.543	9.87	1.86		7
5310.379	269.592	9.67	1.75		7
5328.346	270.505	9.88	1.89		7
5331.395	270.659	8.87	1.38		7
5626.432	285.637	9.15	1.48		7
5627.465	285.690	8.89	1.41		7
5628.567	285.746	9.04	1.50		7
5629.519	285.794	9.14	1.54		7
5630.507	285.844	9.19	1.64		7
6735.858	341.960	9.37	1.76		2
6736.844	342.010	9.47	1.85		2
6742.723	342.306	9.94	1.99		2
6743.834	342.365	9.97	1.98		2
6744.758	342.412	9.91	1.95		2
6746.710	342.511	9.95	1.93		2
6748.734	342.613	9.62	1.72		2
6749.762	342.666	8.95	1.44		2
6753.776	342.869	9.22	1.68		2
6781.834	344.294	9.97	2.00		2
6790.838	344.751	9.00	1.55	1.04	2
6792.778	344.849	9.20	1.63	1.18	2
6793.755	344.899	9.28	1.66	1.30	2
6807.779	345.611	9.64	1.78	1.22	2
6808.710	345.658	9.04	1.44		2
6810.724	345.761	9.00	1.50	1.14	2
6816.703	346.064	9.52	1.91	1.53	2
6817.676	346.113	9.65	1.96	1.61	2
6818.764	346.169	9.70	1.96	1.70	2
6833.679	346.926	9.28	1.70	1.35	2
6834.655	346.975	9.36	1.79	1.40	2
6846.644	347.584	9.83	1.[illegible]		2
7601.580	385.910	9.25	1.69	1.36	1

SS SCT

J.D.	CYCLES	V	B-V	U-B	RF
3087.882	841.098	8.11	0.94		8
3089.864	841.637	8.29	1.[illegible]		8
3090.856	841.908	7.98	0.82		8

SS SCT CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3091.908	842.194	8.21	1.01		8
3092.820	842.443	8.47	1.06		8
3093.809	842.712	8.33	1.04		8
3094.814	842.986	8.00	0.68		8
3095.814	843.258	8.23	1.08		8
3096.785	843.523	8.40	1.05		8
3098.818	844.076	8.11	0.93		8
3[illegible].770	848.966	7.97	0.86		8
3123.750	850.868	7.98	0.84		8
3125.741	851.410	8.42	1.13		8
4585.419	1249.007	8.02	0.86		7
4586.432	1249.283	8.30	1.02		7
4587.415	1249.550	8.45	1.07		7
4968.336	1358.756	8.32	0.92		7
4989.332	1359.027	8.06	0.89		7
5201.666	1416.864	7.99	0.83	0.53	5
5238.630	1426.932	7.96	0.84	0.55	5
5256.631	1431.836	3.06	0.85	0.54	5
5304.386	1444.844	8.00	0.85	0.52	6
5305.401	1445.120	8.15	0.97	0.65	6
5306.341	1445.376	8.37	1.07	0.76	6
5309.427	1446.217	8.22	1.00	0.68	6
5310.440	1446.493	8.44	1.08	0.76	6
5315.420	1447.849	7.99	0.85		7
5624.585	1532.061	8.10	0.90		7
5627.470	1532.847	8.02	0.84		7
5631.450	1533.931	8.00	0.85		7
7099.940	1933.928	7.96	0.83	0.50	1
7100.917	1934.195	8.21	1.02	0.64	1
7102.915	1934.739	8.30	0.98	0.56	1
7147.683	1946.933	8.09	0.85	0.46	1
7148.730	1947.218	8.24	1.04	0.62	1
7149.746	1947.495	8.42	1.07	0.70	1
7159.725	1950.233	8.25	1.02	0.63	1
7162.731	1951.032	7.97	0.90	0.52	1
7198.673	1960.822	8.07	0.87	0.53	1
7200.715	1961.378	8.38	1.09	0.77	1
7201.669	1961.638	8.48	1.06	0.68	1
7203.629	1962.172	8.40	0.98	0.63	1
7455.950	2030.901	7.95	0.81	0.52	1
7458.892	2031.702	8.43	1.03	0.63	1
7469.804	2034.674	8.46	1.04	0.65	1
7472.794	2035.489	8.43	1.08	0.73	1
7533.700	2052.079	8.11	0.93	0.59	1

TY SCT

J.D.	CYCLES	V	B-V	U-B	RF
6790.845	614.388	10.33	1.52	1.07	2
6792.784	614.564	10.67	1.70	1.21	2
6793.762	614.652	10.76	1.86	1.27	2
6802.801	615.470	10.38	1.59	1.03	2
6806.712	615.824	11.05	1.94	1.58	2
6807.740	615.917	11.17	1.95	1.51	2
6808.702	616.0[illegible]	11.18	1.91	1.68	2
6810.729	616.187	10.85	1.73	1.33	2
6816.709	616.728	10.88	1.90	1.44	2

TABLE I (continued)

TY SCT CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6817.681	616.816	11.00	1.98	1.53	2
6818.670	616.906	11.14	1.94	1.60	2
6833.685	618.264	10.69	1.64	1.20	2
6834.660	618.352	10.47	1.57	1.17	2
6845.636	619.345	10.[illegible]	1.57	1.20	2
6846.648	619.437	10.34	1.51	1.13	2
6852.618	619.977	11.18	2.03		2
6853.655	620.071	11.09	1.81		2
6856.601	620.337	10.60	1.59		2

UZ SCT

J.D.	CYCLES.	V	B-V	U-B	RF
4567.573	309.788	10.80	1.60		7
4568.522	309.852	10.82	1.67		7
4579.520	310.598	11.40	1.83		7
4950.477	335.758	10.98	1.72		7
4980.387	337.786	10.85	1.63		7
5364.253	363.821	10.79	1.65		7
5365.241	363.888	10.83	1.72		7
5612.482	380.657	11.37	1.89		7
5627.446	381.672	11.35	1.86		7
5628.556	381.747	11.18	1.77		7
5629.500	381.811	10.86	1.68		7
5630.489	381.878	10.82	1.70		7
5631.409	381.941	10.98	1.79		7
7159.694	485.594	11.52	2.02	1.76	1
7162.695	485.798	10.98	1.72	1.34	1
7198.661	488.237	11.36	2.07	1.90	1
7200.664	488.373	11.62	2.11	1.95	1
7201.640	488.439	11.67	2.13	1.87	1
7226.632	490.134	11.22	2.01	1.61	1
7455.933	505.686	11.39	1.89	1.61	1
7658.883	505.886	10.81	1.81	1.43	1
7523.738	510.285	11.53	2.12	1.81	1
7601.563	515.563	11.63	2.05	1.66	1

CK SCT

J.D.	CYCLES	V	B-V	U-B	RF
4574.493	616.874	10.41	1.48		7
4989.307	672.812	10.36	1.47		7
5315.317	716.775	10.40	1.50		7
5331.383	718.942	10.43	1.54		7
5 23.556	758.341	10.75	1.75		7
5627.457	758.86	10.42	1.5[illegible]		7
5628.580	759.020	10.49	1.6[illegible]		7
5629.511	759.144	10.60	1.63		7
5630.499	759.278	10.68	1.69		7
5631.4[illegible]9	759.402	10.65	1.72		7
5636.466	760.082	10.53	1.64		7
5639.496	760.49[illegible]	10.87	1.73		7
5640.536	760.631	10.70	1.60		7
5641.474	760.758	10.44	1.52		7

CM SCT

J.D.	CYCLES	V	B-V	U-B	RF
4578.529	1168.812	10.77	1.25		7
4579.537	1169.069	11.05	1.43		7
4950.495	1263.768	10.82	1.28		7
5315.383	1356.917	10.88	1.31		7
5331.420	1361.011	10.94	1.38		7
5343.283	1364.039	10.95	1.38		7
5612.509	1432.768	10.83	1.30		7
5623.525	1435.580	11.35	1.47		-7
5628.577	1436.870	10.84	1.28		7
5639.506	1439.660	11.13	1.41		7
5640.547	1439.925	10.91	1.31		7

EV SCT

J.D.	CYCLES	V	B-V	U-B	RF
6050.728	1957.911	10.11	1.17	0.87	13
6051.697	1958.225	10.25	1.22	0.91	13
6106.688	1976.019	10.25	1.19	0.89	13
6107.625	1976.322	10.23	1.18	0.90	13
6108.618	1976.643	10.00	1.08	0.86	13
6120.616	1980.526	10.07	1.09	0.89	13
6120.674	1980.544	10.09	1.10	0.90	13
6121.636	1980.856	10.07	1.14	0.86	13
6121.672	1980.867	10.11	1.15	0.90	13
6128.622	1983.116	10.29	1.19	0.97	13
6128.62[illegible]	1983.117	10.27	1.23	0.92	13

CR SER

J.D.	CYCLES	V	B-V	U-B	RF
4565.530	861.323	10.74	1.56		7
4575.498	863.204	11.22	1.78		7
4925.490	929.233	11.15	1.74		7
4989.296	941.270	11.01	1.70		7
5302.383	1000.336	10.76	1.59		7
5303.386	1000.526	10.61	1.55		7
5308.455	1001.482	10.56	1.48		7
5625.534	1061.201	10.98	1.64		7
5626.421	1061.469	10.55	1.50		7
5631.396	1062.407	10.54	1.45		7
5641.463	1064.367	10.96	1.67		-7
7016.003	1323.624	10.68	1.62	1.27	1
7022.966	1324.938	10.99	1.[illegible]9	1.24	1
7083.976	1336.439	10.40	1.45	0.99	1
7087.774	1337.165	11.32	1.86	1.39	1
7455.879	1406.610	10.64	1.55	1.22	1
7458.827	1407.167	11.26	1.83	1.40	1

[illegible] SWE

J.D.	CYCLES	V	B-V	U-B	RF
2772.788	330.796	5.43	0.76		8
2773.778	330.[illegible]15	5.51	0.8[illegible]		6
2779.816	331.635	5.32	0.67		8
2780.792	331.751	5.49	0.74		8
2784.767	332.228	6.01	1.06		8
2789.863	32.833	5.39	0.72		8

TABLE 1 (continued)

S SGE CONT.

J.D.	CYCLES	V	B-V	U-B	RF
2790.840	332.950	5.65	0.38		8
2791.844	333.070	5.80	0.99		8
3102.809	370.168	5.95	1.04		8
3103.816	370.288	6.05	1.07		8
3116.844	371.843	5.37	0.73		8
3131.795	373.626	5.32	0.66		8
3132.740	373.739	5.47	0.73		8
3133.752	373.860	5.43	0.72		8
3134.782	373.963	5.70	0.90		8
3136.778	374.221	6.00	1.05		8
3137.755	374.337	5.09	1.02		8
3152.783	376.130	5.90	1.01		8
3153.785	376.250	6.01	1.06		8
3154.799	376.371	5.97	0.97		8
3158.700	376.836	5.40	0.72		8
3159.722	376.958	5.67	0.89		8
3173.680	379.220	5.99	1.05		8
3179.674	379.338	6.07	1.02		8
3180.674	379.458	5.81	0.85		8
3200.661	381.842	5.40	0.72		8
3206.667	382.559	5.40	0.69		8
5238.671	624.579	5.69	0.90	0.66	5
5242.621	625.450	5.75	0.86	0.59	5
5256.580	627.115	5.83	1.00	0.77	5
5292.481	631.398	5.86	0.94	0.69	5
5302.541	632.598	5.27	0.62		7
5303.419	632.703	5.42	0.73		7
5305.440	632.944	5.60	0.88	0.63	6
5306.401	633.059	5.76	0.96	0.72	6
5309.395	633.416	5.88	0.92	0.65	6
5310.410	633.527	5.43	0.71	0.45	6
5328.412	635.685	5.36	0.68		7
5348.343	638.063	5.76	0.96		7
5349.280	638.174	5.95	1.01		7
5358.353	639.257	6.00	1.03		7
5363.313	639.849	5.33	0.72		7
5364.319	639.969	5.65	0.58		7
5652.414	674.339	5.96	1.00		7
5654.422	674.578	5.27	0.58		7
5661.435	675.415	5.90	0.90		7
5669.468	676.373	5.98	0.95		7
5678.449	677.444	5.78	0.89		7
5687.442	678.518	5.53	0.70		7
5688.321	678.622	5.15	0.58		7
7050.961	841.187	5.96	1.04	0.80	1
7132.864	850.958	5.67	0.89	0.59	1
7147.773	852.736	5.45	0.73	0.47	1
7148.856	852.866	5.40	0.73	0.48	1
7149.872	852.987	5.69	0.91	0.64	1
7152.752	854.523	5.39	0.70	0.43	1
7178.733	856.430	5.80	0.86	0.54	1
7202.709	859.290	6.02	1.02	0.77	1
7205.690	859.646	5.31	0.66	0.47	1
7206.721	859.769	5.42	0.74	0.49	1
7215.847	860.834	5.37	0.74	0.43	1
7451.954	889.026	5.71	0.93	0.67	1
7510.829	896.765	5.48	0.76	0.43	1

S SGE CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7521.824	897.361	6.00	0.96	0.71	1
7522.841	897.482	5.66	0.78	0.54	1

U SGR

J.D.	CYCLES	V	B-V	U-B	RF
3094.855	458.842	6.66	1.19		8
3095.840	458.988	6.86	1.[illegible]		8
3096.826	459.134	6.98	1.32		8
3098.840	459.433	6.49	0.98		8
3119.785	462.538	6.30	0.89		8
3123.781	463.131	6.99	1.32		8
3125.769	463.425	6.53	0.98		8
3126.764	463.573	6.36	0.94		8
3145.707	466.381	6.69	1.03		8
3146.719	466.531	6.28	0.88		8
3147.726	466.681	6.49	1.01		8
3148.736	466.830	6.59	1.11		8
3151.694	467.269	6.97	1.20		8
3152.696	467.418	6.54	0.99		8
3153.700	467.566	6.30	0.93		8
3154.698	467.714	6.50	1.06		8
4585.408	679.831	6.64	1.13		7
4586.424	679.982	6.85	1.22		7
4587.404	680.127	7.01	1.30		7
4901.680	726.721	6.64	1.03		7
4906.648	727.458	6.50	0.95		7
4907.474	727.580	6.42	0.94		7
4914.455	728.615	6.45	1.00		7
4947.439	733.505	6.33	0.89		7
4953.497	734.403	6.71	1.06		7
5244.675	777.574	6.40	0.93	0.62	5
5246.681	777.871	6.72	1.13	0.80	5
5250.615	778.454	6.54	0.98	0.66	5
5256.557	779.335	6.96	1.18	0.85	5
5270.424	781.391	6.76	1.09	0.75	5
5273.448	781.839	6.68	1.12	0.81	6
5273.582	781.859	6.70	1.16	0.84	6
5274.430	781.985	6.91	1.23	0.94	6
5276.584	782.008	6.91	1.23	0.93	6
5275.381	782.126	7.02	1.28	1.01	6
5275.445	782.284	7.10	1.25	0.96	6
5276.578	782.303	7.06	1.24	0.97	6
5277.369	782.421	6.70	1.04	0.70	6
5277.572	782.451	6.56	1.00	0.65	6
5278.390	782.572	6.41	0.95	0.62	6
5278.578	782.600	6.43	0.97	0.63	6
5304.247	786.406	6.74	1.08	0.72	6
5304.493	786.442	6.60	1.00	0.67	6
5305.267	786.557	6.37	0.94	0.62	6
5305.463	786.586	6.42	0.97	0.63	6
5306.255	786.703	6.58	1.06	0.74	6
5306.510	786.741	6.65	1.10	0.78	6
5309.2[illegible]	787.147	7.06	1.28	1.03	6
5309.491	787.183	7.10	1.30	1.03	6
5310.256	787.297	7.08	1.24	0.93	6
5310.497	787.332	6.99	1.18	0.86	6

TABLE 1 (continued)

U SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5311.242	787.443	6.58	1.00	0.65	6
5635.759	835.556	6.34	0.88	0.71	18
5637.958	835.882	6.60	1.11	0.81	18
5981.907	86.875	6.65	1.14	0.81	18
5995.950	888.957	6.79	1.20	0.87	18
5996.754	889.082	6.94	1.30	1.00	18
6000.771	889.672	6.48	1.04	0.73	18
6004.756	890.263	7.04	1.31	0.97	18
6005.742	890.409	6.71	1.05	0.70	18
6009.742	891.002	6.90	1.24	0.91	18
6009.809	891.012	6.87	1.25	0.94	18
6012.832	891.460	6.51	0.98	0.63	18
6014.840	891.758	6.64	1.10	0.72	18
6026.783	893.529	6.36	0.95	0.61	18
6760.822	1002.357	6.94	1.14	0.85	21
6762.790	1002.649	6.47	0.99	0.71	21
6763.70	1002.784	6.66	1.08	0.76	21
6778.71	1005.010	6.82	1.28	0.93	21
6778.811	1005.024	6.89	1.23	0.92	21
6778.836	1005.028	6.87	1.23	0.92	21
6779.689	1005.154	7.01	1.28	0.94	21
6779.778	1005.167	7.00	1.30	0.94	21
6779.824	1005.174	7.02	1.29	0.99	21
6783.710	100 .750	6.67	1.12	0.80	21
6783.758	1005.757	6.67	1.15	0.82	21
6785.669	1006.041	6.88	1.26	0.92	21
6786.692	1006.192	7.05	1.29	1.02	21
6786.742	1006.200	7.03	1.29	1.01	21
6787.673	1006.338	6.96	1.19	0.85	21
6787.731	1006.346	6.93	1.13	0.83	21
6816.666	1010.636	6.44	1.00	0.66	21
6817.675	1010.786	6.65	1.06	0.80	21
6819.651	1011.079	6.92	1.26	0.96	21
7051.933	1045.517	6.37	0.94	0.56	1
7073.767	1048.754	6.60	1.13	0.76	19
7073.786	1048.757	6.60	1.11	0.76	19
7073.821	1048.762	6.60	1.13	0.75	19
7073.856	1048.767	6.61	1.13	0.76	19
7073.907	1048.775	6.63	1.14	0.75	19
7075.762	1049.050	6.89	1.26	0.93	19
7075.799	1049.055	6.90	1.27	0.96	19
7075.840	1049.061	6.91	1.28	0.94	19
7075.882	1049.068	6.91	1.29	0.95	19
7075.913	1049.072	6.92	1.28	0.96	19
7077.776	1049.348	6.96	1.21	0.79	19
7077.807	1049.353	6.93	1.21	0.80	19
7077.933	1049.372	6.87	1.15	0.78	19
7079.795	1049.648	6.46	0.99	0.63	19
7079.905	1049.664	6.48	1.05	0.65	19
7080.795	1049.796	6.63	1.15	0.79	19
7080.907	1049.813	6.64	1.15	0.77	19
7091.885	1051.440	6.64	1.03	0.65	1
7093.843	1051.731	6. 3	1.10	0.79	1
7094.826	1051.876	6.65	1.18	0.80	1
7099.895	1052.628	6.43	0.99	0.64	1
7102.894	1053.072	6.91	1.27	0.95	1
7104.755	1053.348	6.96	1.21	0.81	19

U SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7104.802	1053.355	6.95	1.21	0.76	19
7105.825	1053.507	6.37	0.93	0.56	19
7105.906	1053.519	6.37	0.92	0.59	19
7106.745	1053.643	6.45	1.00	0.64	19
7106.833	1053.656	6.50	1.00	0.67	19
7107.752	1053.793	6.65	1.10	0.79	19
7107.772	1053.796	6.64	1.13	0.80	19
7108.791	1053.947	6.80	1.23	0.86	19
7108.811	1053.950	6.78	1.20	0.87	19
7108.843	1053.954	6.76	1.21	0.84	19
7109.761	1054.090	6.95	1.27	0.96	19
7111.737	1054.383	6.81	1.13	. 73	19
7111.841	1054.399	6.77	1.12	0.72	19
7112.715	1054.528	6.35	0.91	0.60	19
7112.830	1054.546	6.36	0.92	0.59	19
7113.725	1054.678	6.50	1.04	0.69	19
7113.796	1054.689	6.50	1.06	0.70	19
7114.710	1054.824	6.65	1.12	0.79	19
7114.793	1054.837	6.64	1.14	0.80	19
7115.735	1054.976	6.84	1.23	0.89	19
7115.802	1054.986	6.82	1.27	0.89	19
7130.762	1057.204	7.11	1.31	1.05	-1
7143.783	1059.135	7.00	1.28	1.02	1
7145.740	1059.425	6.71	1.06	0.71	1
7148.717	1059.866	6.65	1.14	0.79	1
7149.733	1060.017	6.86	1.24	0.93	1
7162.669	7061.935	6.84	1.19	0.81	1
7204.606	1068.152	7.09	1.31	1.03	1
7237.570	1073.039	6.90	1.26	0.98	1
7239.565	1073.335	6.99	1.21	0.88	1
7516.645	1114.415	6.68	1.09	0.69	1
7516.737	1114.429	6.72	1.07	0.71	1
7518.733	1114.729	6.62	1.08	0.76	1
7523.729	1115.465	6.60	1.03	0.65	1
753 .610	1116.930	6.73	1.18	0.05	1
7533.689	1116.942	6.75	1.19	0.86	1
7539.747	1117.840	6.65	1.24	0.77	1
7539.756	1117.841	6.57	1.19	0.84	1
7539.764	1117.843	6.59	1.19	0.86	1
7540.656	1117.975	6.86	1.23	0.93	1

W SGR

J.D.	CYCLES	V	B-V	U-B	RF
4544.144	598.330	4.51	0.74		9
4558.190	600.180	4.51	0.73		9
4561.138	600.568	4.91	0.97		9
4564.547	601.017	4.39	0.57		7
4565.523	601.145	5.46	0.66		7
4567.535	601.410	.76	0.04		7
4568.447	601.530	4.89	0.87		7
4573.433	602.187	4.51	0.68		7
4575.475	602.456	4.82	0.86		7
4577.484	602.720	5.11	0.96		7
4579.450	602.979	4.33	0.56		7
4585.361	603.757	5.0.	0.95		7
4586.369	603.893	4.72	0.71		7

TABLE I (continued)

W SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4587.370	604.022	4.32	0.50		7
4602.048	605.954	4.43	0.66		9
4603.055	606.087	4.35	0.65		9
4848.118	638.355	4.54	0.80		9
4868.258	641.006	4.29	0.59		9
4869.111	641.119	4.39	0.68		9
4873.102	641.644	5.02	1.02		9
4903.102	645.594	4.91	0.98		9
4918.040	647.561	4.90	0.96		9
4921.150	647.971	4.39	0.60		9
4925.060	648.486	4.82	0.94		9
4951.043	651.907	4.66	0.72		9
4959.944	653.079	4.34	0.63		9
5002.980	658.745	4.96	1.00		9
5012.992	660.064	4.27	0.62		9
5013.974	660.193	4.52	0.71		9
5014.956	660.322	4.49	0.77		9
5201.685	684.909	4.69	0.72	0.46	5
5208.677	685.830	4.97	0.87	0.61	5
5236.644	689.512	4.86	0.92	0.69	5
5238.613	689.771	5.08	0.95	0.71	5
5242.677	690.306	4.51	0.74	0.49	5
5243.673	690.438	4.82	0.88	0.64	5
5244.640	690.565	4.93	0.94	0.71	5
5246.664	690.831	4.97	0.86	0.60	5
5256.671	692.149	4.48	0.68	0.44	5
5304.328	698.424	4.78	0.88	0.58	6
5305.353	698.559	4.89	0.94	0.71	6
5306.314	698.686	5.07	1.00	0.77	6
5308.055	698.915	4.63	0.73		9
5309.366	699.087	4.36	0.61	0.36	5
5310.342	699.216	4.24	0.73	0.46	6
7053.931	928.795	5.10	0.92	0.61	1
7056.941	929.192	4.63	0.72	0.40	1
7083.874	932.738	5.04	0.91	0.65	1
7091.858	933.789	5.08	0.90	0.64	1
7093.828	934.049	4.33	0.55	0.37	1
7094.810	934.178	4.49	0.70	0.41	1
7099.869	934.844	4.94	0.83	0.51	1
7100.872	934.976	4.38	0.55	0.31	1
7102.880	935.240	4.52	0.71	0.44	1
7453.943	981.465	4.68	0.87	0.54	1
7455.853	981.717	5.07	0.97	0.73	1
7458.819	982.107	4.41	0.63	0.44	1
7471.835	983.821	5.09	0.89	0.63	1
7523.684	990.648	5.11	1.00	0.77	1
7533.676	991.964	4.48	0.61	0.35	1

X SGR

J.D.	CYCLES	V	B-V	U-B	RF
4544.149	647.992	4.47	0.75		9
4558.176	649.992	4.47	0.74		9
4561.174	650.413	4.85	0.93		9
4564.469	650.890	4.34	0.63		7
4586.364	654.012	4.49	0.74		7
4587.352	654.153	4.65	0.79		7

X SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4602.038	656.247	4.71	0.90		9
4603.051	656.392	4.86	0.92		9
4848.115	691.338	4.81	0.93		9
4868.254	694.209	4.71	0.88		9
4869.102	694.330	4.79	0.93		9
4873.109	694.902	4.36	0.73		9
4903.083	699.176	4.58	0.87		9
4918.045	701.310	4.82	0.91		
4921.144	701.751	4.24	0.61		9
4925.065	702.311	4.80	0.95		9
4951.038	706.014	4.47	0.76		9
4959.951	707.285	4.78	0.91		9
5002.987	713.422	4.77	0.94		9
5012.997	714.850	4.28	0.68		9
5013.967	714.988	4.42	0.76		9
5014.948	715.128	4.55	0.87		9
5176.642	738.185	4.68	0.86	0.58	5
5184.665	739.329	4.81	0.91	0.65	5
5195.679	740.900	4.41	0.70	0.44	5
5201.680	741.756	4.26	0.62	0.35	5
5205.633	742.319	4.82	0.91	0.64	5
5208.651	742.750	4.27	0.62	0.35	5
5236.638	746.741	4.28	0.61	0.35	5
5238.610	747.022	4.52	0.78	0.51	5
5243.655	747.741	4.25	0.60	0.34	5
5244.615	747.878	4.34	0.68	0.41	5
5245.596	748.018	4.51	0.77	0.50	5
5246.667	748.171	4.66	0.84	0.56	5
5251.608	748.872	4.29	0.65		7
5256.662	749.596	4.64	0.76	0.48	5
5285.421	753.697	4.28	0.60		7
5304.271	756.385	4.84	0.93	0.66	6
5305.329	756.536	4.79	0.85	0.55	6
5308.039	756.922	4.34	0.74		9
5573.639	794.797	4.26	0.62		7
5628.440	802.611	4.59	0.71		7
5643.353	804.738	4.24	0.59		7
5644.240	804.864	4.30	0.67		7
7053.938	1005.886	4.40	0.70	0.36	1
7056.948	1006.315	4.92	0.91	0.55	1
7083.856	1010.152	4.53	0.83	0.44	1
7091.850	1011.292	4.81	0.90	0.57	1
7093.818	1011.573	4.71	0.79	0.45	1
7094.804	1011.714	4.25	0.60	0.33	1
7099.862	1012.435	4.92	0.92	0.62	1
7100.854	1012.576	4.67	0.77	0.39	1
7102.874	1012.864	4.30	0.65	0.39	1
7132.774	1017.128	4.65	0.85	0.51	1
7458.811	1063.621	4.56	0.73	0.45	1
7523.677	1072.871	4.40	0.70	0.47	1
7533.669	1074.296	4.82	0.90	0.58	1

Y SGR

J.D.	CYCLES	V	B-V	U-B	RF
3083.872	534.156	5.42	0.67		8
3092.847	535.711	5.03	1.06		8

TABLE 1 (continued)

Y SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3093.835	535.882	6.05	1.08		8
3094.833	536.055	5.54	0.75		8
3095.830	536.228	5.47	0.74		8
3096.812	536.398	5.66	0.89		8
3116.795	539.859	6.07	1.08		8
3122.765	540.893	6.05	1.06		8
3123.766	541.067	5.48	0.75		8
3125.760	541.412	5.67	0.91		8
3126.750	541.583	5.86	0.99		8
3146.708	545.040	5.50	0.84		8
3147.717	545.215	5.48	0.71		8
3148.728	545.390	5.65	0.86		8
3151.690	545.903	6.02	1.04		8
3153.730	546.257	5.47	0.75		8
3154.724	546.429	5.68	0.91		8
4579.494	793.215	5.40	0.70		7
4585.398	794.235	5.46	0.73		7
4586.415	794.411	5.68	0.87		7
4587.389	794.580	5.86	0.97		7
4947.431	856.943	5.94	0.93		7
5208.673	902.193	5.43	0.72	0.46	5
242.689	908.084	5.46	0.71	0.44	5
5244.664	908.427	5.72	0.91	0.65	5
5256.564	910.488	5.76	0.95	0.69	5
5304.355	918.766	6.07	1.04	0.79	6
5305.377	918.943	6.01	0.96	0.65	6
5306.364	919.114	5.40	0.69	0.41	6
5309.479	919.653	5.98	1.02	0.74	6
5310.378	919.809	6.09	1.05	0.77	6
5358.245	928.100	5.38	0.67		7
5363.275	928.971	5.05	0.89		-7
5364.242	929.139	5.35	0.65		7
7048.978	1220.951	5.97	0.97	0.62	1
7053.955	1221.813	6.15	1.07	0.76	1
7082.921	1226.832	6.07	1.05	0.78	1
7091.876	1228.382	5.64	0.88	0.56	1
7093.836	1228.721	6.03	1.03	0.80	1
7094.823	1228.892	6.10	1.03	0.72	1
7099.888	1229.769	6.06	1.05	0.76	1
7100.896	1229.944	5.97	0.96	0.62	1
7102.887	1230.289	5.54	0.79	0.50	1
7130.749	1235.115	5.42	0.63	0.43	1
7132.810	1235.472	5.80	0.94	0.66	1
7455.904	1291.435	5.72	0.90	0.64	
7523.718	1303.181	5.46	0.73	0.50	

VY SGR

J.D.	CYCLES	V	B-V	U-B	RF
4567.557	336.883	10.86	1.71		7
4568.455	336.949	11.00	1.81		7
5623.513	414.765	11.68	2.07		7
5624.559	414.843	11.29	1.91		-7
5636.454	415.710	11.69	2.04		7
5637.418	415.791	11.63	1.98		7
7143.749	526.891	10.67	1.78	1.27	1
7226.580	533.000	11.13	1.92	1.35	1

VY SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7523.701	554.915	11.04	1.79	1.42	1

WZ SGR

J.D.	CYCLES	V	B-V	U-B	RF
3092.854	141.551	8.37	1.71		8
3093.840	141.596	8.36	1.73		8
3094.840	141.642	8.42	1.74		8
3095.833	141.688	8.44	1.69		8
3096.819	141.733	8.41	1.64		8
3098.837	141.825	8.35	1.52		8
3116.799	142.647	8.31	1.72		8
3123.771	142.966	7.64	1.21		8
3126.760	143.103	7.53	1.17		8
3145.704	143.970	7.63	1.07		8
3146.753	144.018	7.40	1.04		8
3147.764	144.064	7.48	1.10		8
3148.774	144.111	7.55	1.17		8
3151.733	144.246	7.75	1.44		8
3152.726	144.291	7.84	1.47		8
3153.733	144.338	7.91	1.52		8
3154.730	144.383	8.01	1.58		8
4563.567	208.832	8.84	1.54		-7
4565.549	208.952	7.87	1.25		7
4568.477	209.086	7.69	1.05		-7
4572.514	209.271	7.91	1.47		7
4573.488	209.316	7.95	1.54		7
4575.539	209.410	8.15	1.54		7
4579.480	209.590	8.45	1.72		7
4585.385	209.860	8.31	1.54		7
4586.405	209.907	8.28	1.50		7
4901.653	224.335	8.01	1.51		-7
4942.218	226.146	7.66	1.30		7
4943.417	226.246	7.81	1.45		7
4961.353	227.067	7.57	1.12		7
5201.659	238.065	7.51	1.11	0.79	5
5244.659	240.033	7.47	1.07	0.75	5
5246.689	240.126	7.64	1.22	0.92	5
5256.635	240.582	8.47	1.70	1.41	5
5304.351	242.765	8.53	1.63	1.48	6
5305.369	242.812	8.44	1.56	1.34	6
5306.357	242.857	8.35	1.49	1.23	6
5309.376	242.995	7.55	1.12		7
5309.468	243.000	7.55	1.13	0.81	6
5310.366	243.041	7.53	1.09		-7
5310.372	243.041	7.46	[illegible]	0.81	6
7100.889	324.988	7.56	1.12	0.79	1
7130.740	326.354	8.07	1.59	1.50	1
7143.768	326.950	7.90	1.25	0.95	1
7145.717	327.040	7.48	1.12	0.81	1
7148.660	327.174	7.71	1.23	1.06	1
7149.704	327.222	7.31	1.41	1.21	1
7226.570	330.740	8.57	1.71	1.70	1
7455.897	341.236	7.02	1.42	1.24	1
7458.856	341.371	8.10	1.60	1.48	1
7523.712	344.339	8.06	1.57	1.40	1

TABLE 1 (continued)

XX SGR

J.D.	CYCLES	V	B-V	U-B	RF
3092.872	481.432	8.64	1.07		8
3093.854	481.585	8.77	1.19		8
3094.854	481.740	8.99	1.26		8
3095.847	481.895	9.11	1.38		8
3096.830	482.048	9.19	1.32		8
3098.847	482.362	8.48	1.01		8
3123.785	486.244	8.48	0.97		8
3125.776	486.554	8.75	1.19		8
3145.715	489.657	8.78	1.18		8
3146.722	489.814	9.02	1.32		8
3148.740	490.128	9.01	1.20		8
3152.694	490.744	8.92	1.26		8
3153.701	490.900	9.10	1.38		8
3154.704	491.057	9.17	1.29		8
3157.701	491.523	8.77	1.19		8
7143.761	1111.987	9.28	1.35	1.01	1
7148.669	1112.751	9.03	1.29	0.90	1
7149.711	1112.913	9.22	1.35	1.02	1
7160.688	1114.622	8.85	1.20	0.84	1
7226.592	1124.880	9.20	1.38	0.98	1
7233.5 7	1125.966	9.28	1.33	1.07	1
7455.913	1160.576	8.83	1.17	0.83	1
7458.866	1161.036	9.30	1.34	1.02	1
7523.723	1171.132	9.08	1.24	0.83	1

YZ SGR

J.D.	CYCLES	V	B-V	U-B	RF
3092.878	323.745	7.74	1.23		8
3093.861	323.848	7.45	1.13		8
3094.865	323.953	7.18	1.00		8
3096.845	324.160	6.96	0.90		8
3098.858	324.371	7.22	1.08		8
3123.790	326.980	7.15	0.98		8
3125.781	327.189	6.96	0.90		8
3145.726	329.276	7.15	0.96		8
3146.733	329.382	7.24	1.09		8
3147.746	329.488	7.38	1.15		8
3148.750	329.593	7.56	1.22		8
3152.705	330.007	7.07	0.92		8
3154.712	330.217	6.99	0.91		8
4585.445	479.978	7.20	0.93		7
4586.447	480.083	7.18	0.91		7
4587.432	480.186	7.05	0.87		7
4914.478	514.419	7.37	1.13		7
4922.551	515.264	7.14	0.93		7
4931.467	516.198	7.03	0.86		7
4961.404	519.331	7.25	1.01		7
4980.398	521.319	7.24	1.01		7
4988.353	522.152	7.11	0.90		7
5256.618	550.232	7.08	0.92	0.63	5
5304.372	555.231	7.06	0.92	0.62	6
5305.391	555.338	7.26	1.04	0.76	6
5306.354	555.439	7.39	1.12	0.85	6
5309.463	555.764	7.71	1.20	0.93	6
5310.358	555.858	7.49	1.07	0.74	6
5331.432	558.064	7.17	0.91		7
5370.274	562.129	7.14	0.97		7

YZ SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7053.958	738.368	7.32	1.05	0.76	1
7091.910	742.340	7.28	1.05	0.75	1
7093.870	742.545	7.53	1.20	0.98	1
7094.895	742.653	7.68	1.24	1.02	1
7099.917	743.178	7.09	0.89	0.58	1
7100.903	743.282	7.19	1.00	0.65	1
7102.908	743.491	7.44	1.15	0.88	1
7458.938	780.759	7.76	1.22	0.94	1
7469.832	781.899	7.46	1.03	0.70	1
7533.722	788.587	7.61	1.23	0.96	1

AP SGR

J.D.	CYCLES	V	B-V	U-B	RF
4565.541	902.671	7.07	0.93		7
4573.481	904.241	6.60	0.59		7
4585.375	906.592	6.96	0.88		7
4586.397	906.795	7.15	0.97		7
4587.380	906.989	7.36	1.02		7
4907.458	970.273	6.57	0.60		7
4943.318	977.363	6.66	0.65		7
4947.420	978.174	6.88	0.73		7
4953.484	979.373	6.67	0.68		7
5208.664	1029.825	7.22	0.99	0.73	5
5242.681	1036.551	6.92	0.86	0.59	5
5244.655	1036.941	7.33	1.01	0.75	5
5246.685	1037.343	6.62	0.67	0.40	5
5256.674	1039.318	6.59	0.63	0.38	5
5304.336	1048.741	7.13	0.96	0.68	6
5305.357	1048.943	7.31	1.01	0.73	6
5306.376	1049.145	7.08	0.84	0.52	6
5309.504	1049.763	7.18	0.98	0.71	6
5310.391	1049.938	7.32	1.01	0.74	6
7082.906	1400.369	6.66	0.71	0.45	1
7083.935	1400.592	6.92	0.84	0.54	1
7094.817	1402.744	7.12	0.94	0.67	1
7099.876	1403.744	7.13	0.96	0.70	1
7100.880	1403.943	7.28	1.03	0.70	1
7143.794	1412.420	6.70	0.71	0.48	1
7145.704	1412.805	7.20	0.99	0.70	1
7147.671	1413.194	6.95	0.80	0.37	1
7148.653	1413.388	6.66	0.68	0.41	1
7149.699	1413.595	6.98	0.88	0.57	1
7160.671	1415.764	7.15	0.95	0.62	1
7226.585	1428.796	7.15	0.98	0.65	1
7233.560	1430.175	7.01	0.77	0.48	1
7234.567	1430.375	6.60	0.68	0.42	1
7455.889	1474.133	7.19	0.89	0.56	1
7458.846	1474.718	7.14	0.97	0.68	1
7471.842	1477.287	6.62	0.60	0.49	1
7523.706	1487.541	6.96	0.87	0.54	1

AY SGR

J.D.	CYCLES	V	B-V	U-B	RF
4573.511	696.164	10.12	1.33		7
4579.803	697.675	10.28	1.39		7
4922.528	749.290	10.37	1.45		7

TABLE 1 (continued)

AY SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4929.486	750.349	10.40	1.51		7
4961.391	755.206	10.19	1.33		7
5302.401	807.113	10.13	1.33		7
5308.499	808.041	10.45	1.45		7
5309.387	808.176	10.16	1.36		7
6790.790	1033.670	10.75	1.70	1.26	2
6793.714	1034.115	10.14	1.35	0.79	2
6802.712	1035.485	10.53	1.59	1.17	2
6806.679	1036.089	10.28	1.33	0.92	2
6807.733	1036.249	10.20	1.42	0.90	2
6808.694	1036.396	10.44	1.50	1.13	2
6809.677	1036.545	10.56	1.39	1.22	2
6810.670	1036.696	10.78	1.66	1.41	2
6811.721	1036.856	10.94	1.75	1.25	2
6812.700	1037.005	10.68	1.59	1.12	2
6813.649	1037.150	10.08	1.31	0.91	2
6817.655	1037.760	10.84	1.73	1.52	2
6818.656	1037.912	10.86	1.70	1.31	2
6820.625	1038.212	10.17	1.36	0.95	2
6833.637	1040.192	10.18	1.32	0.91	2

BB SGR

J.D.	CYCLES	V	B-V	U-B	RF
4585.455	690.894	7.04	1.02		7
4586.455	691.044	6.68	0.82		7
4587.442	691.193	6.76	0.91		7
4925.546	742.136	6.71	0.86		7
4931.474	743.029	6.72	0.85		7
5244.686	790.221	6.81	0.95	0.67	5
5256.643	792.022	6.75	0.86	0.56	5
5303.410	799.069	6.59	0.86		7
5304.381	799.215	6.80	0.95	0.66	6
5305.394	799.368	6.93	1.03	0.74	6
5306.375	799.515	7.08	1.10	0.82	6
5309.499	799.986	6.84	0.91	0.59	6
5310.388	800.120	6.69	0.87	0.57	6
5349.320	805.986	6.82	0.89		7
5350.229	806.123	6.72	0.85		-7
5370.282	809.144	6.68	0.87		7
6731.795	1014.284	6.86	0.99		2
6735.765	1014.883	7.14	1.06		2
6736.923	1015.057	6.69	0.85		2
6741.902	1015.807	7.24	1.13		2
6742.724	1015.931	6.89	0.99		2
6743.858	1016.102	6.74	0.89		2
6744.847	1016.251	6.83	0.96		2
6745.805	1016.395	6.93	1.04		2
6746.754	1016.538	7.19	1.06		2
6747.762	1016.690	7.25	1.18		2
6748.785	1016.844	7.22	1.10		2
6749.796	1016.997	6.77	0.89		2
6753.795	1017.599	7.11	1.12		2
6757.735	1018.193	6.76	0.98		2
6760.832	1018.659	7.25	1.14		2
6761.781	1018.802	7.27	1.16	0.73	2
6806.742	1025.577	7.10	1.11	0.86	2

BB SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6807.787	1025.734	7.23	1.16	0.85	2
6833.693	1029.637	7.18	1.09	0.87	2
6836.651	1030.083	6.65	0.84	0.60	2
6856.616	1033.091	6.71	0.86		2
7091.892	1068.540	7.09	1.12	0.83	1
7093.850	1068.835	7.22	1.12	0.82	1
7094.836	1068.984	6.82	0.92	0.56	1
7099.901	1069.747	7.27	1.16	0.90	1
7102.901	1070.199	6.75	0.93	0.61	1
7130.776	1074.399	6.98	1.05	0.76	1
7132.820	1074.707	7.34	1.17	0.98	1
7143.672	1076.342	6.89	1.03	0.71	1
7145.733	1076.653	7.22	1.18	0.90	1
7148.705	1077.100	6.68	0.85	0.52	1
7149.726	1077.254	6.83	0.97	0.66	1
7515.731	1132.401	6.89	1.04	0.76	1

350 SGR

J.D.	CYCLES	V	B-V	U-B	RF
3092.872	600.064	7.59	1.04		8
3093.858	600.255	7.75	1.12		8
3094.860	600.449	7.56	0.98		8
3095.854	600.642	7.01	0.76		8
3096.840	600.834	7.24	0.92		8
3098.854	601.224	7.71	1.11		8
3145.719	610.317	7.73	1.13		8
3146.729	610.513	7.26	0.80		8
3147.743	610.709	7.15	0.80		8
3148.746	610.904	7.38	0.94		8
3152.698	611.671	7.03	0.76		8
3153.708	611.867	7.32	0.94		8
3154.705	612.060	7.56	1.04		8
4585.432	889.643	7.11	0.74		7
4586.441	889.839	7.36	0.91		7
4587.424	890.029	7.61	1.02		7
4914.468	953.480	7.51	0.91		7
4925.535	955.628	7.13	0.72		7
4931.4[illegible]	956.777	7.31	0.87		7
4988.344	967.814	7.36	0.89		7
5244.682	1017.547	7.21	0.78	0.49	5
5256.702	1019.879	7.44	0.96	.68	5
5302.480	1028.761	7.28	0.87		7
5304.365	1029.127	7.08	1.06	0.76	6
5305.382	1029.324	7.84	1.08	0.78	6
5306.367	1029.515	7.35	0.84	0.52	6
5309.404	1030.120	7.69	1.06	0.76	6
5310.382	1030.294	7.80	1.09	0.79	5
5358.263	1039.584	7.11	0.72		7
5359.236	1039.772	7.32	0.87		7
7094.903	1376.518	7.31	0.82	0.47	1
7099.926	1377.492	7.42	0.87	0.49	1
7100.910	1377.683	7.19	0.81	0.49	1
7143.790	1386.003	7.56	1.01	0.71	1
7148.724	1386.960	7.52	1.02	0.65	1
7149.739	1387.157	7.72	1.07	0.74	1

TABLE 1 (continued)

350 SGR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7159.704	1389.090	7.65	1.08	0.72	1
7162.704	1389.672	7.20	0.80	0.45	1
7226.600	1402.069	7.63	1.06	0.68	1
7233.574	1403.422	7.70	0.98	0.64	1
7239.572	1404.586	7.13	0.72	0.45	1
7255.962	1446.569	7.11	0.73	0.48	1
7258.901	1447.139	7.73	1.09	0.76	1
7533.385	1461.648	7.16	0.77	0.52	1

626 SGR

J.D.	CYCLES	V	B-V	U-B	RF
4562.535	170.594	11.98	0.79		7
4564.562	170.670	12.22	0.91		7
4573.444	171.002	12.83	0.59		7
4574.438	171.039	12.42	0.57		7
4575.483	171.078	12.12	0.48		7
4576.460	171.115	11.85	0.44		7
4577.496	171.153	11.70	0.42		7
4929.470	184.314	11.93	0.69		7
4931.434	184.387	11.85	0.75		7
4953.446	185.210	11.64	0.57		7
4979.371	186.180	11.67	0.46		7
4988.299	186.513	11.94	0.76		7
5611.539	209.816	12.75	0.91		7
5623.476	210.263	11.81	0.63		7
5624.517	210.302	11.78	0.67		7
5626.543	210.377	11.82	0.67		7
5627.403	210.410	11.94	0.64		7
5628.510	210.451	11.84	0.75		7
5629.476	210.487	11.96	0.72		7
5630.465	210.524	12.02	0.71		7
5631.368	210.558	12.02	0.78		7
5634.456	210.673	12.19	0.89		7
5636.430	210.747	12.49	0.80		7
5637.403	210.783	12.43	0.86		-7
5638.451	210.823	12.53	0.86		7
5639.474	210.[illegible]	12.65	0.83		7
5640.524	210.[illegible]	12.69	0.79		7
5641.452	210.[illegible]	12.69	0.73		7
5642.518	210.975	12.70	0.69		-7
5652.339	211.342	11.90	0.75		7
5660.555	211.649	12.24	0.91		-7
5672.419	212.093	12.14	0.60		7

738 SGR

J.D.	CYCLES	V	B-V	U-B	RF
4574.450	105.426	11.73	1.42		7
4575.513	105.451	11.84	1.41		7
4577.519	105.497	11.87	1.46		-7
4578.499	105.520	11.89	1.[illegible]		7
4953.461	114.161	11.76	[illegible]		7
4961.336	114.343	12.19	1.60		-7
5308.469	122.343	11.90	1.50		7
5310.336	122.386	11.9[illegible]	1.60		7

741 SGR

J.D.	CYCLES	V	B-V	U-B	RF
4572.529	301.698	11.29	1.79		7
4573.500	301.762	11.29	1.81		7
4950.457	326.634	11.07	1.69		-7
4980.373	328.607	11.22	1.72		7
5331.300	351.762	11.23	1.81		7
5343.254	352.550	11.30	1.79		7

ST TAU

J.D.	CYCLES	V	B-V	U-B	RF
4784.273	1185.920	8.42	0.99		7
5164.314	1280.124	8.55	1.06		7
5166.277	1280.611	7.81	0.78	0.51	5
5167.282	1280.860	8.20	1.00	0.67	5
5169.277	1281.354	8.41	0.99	0.64	5
5176.273	1283.089	8.45	1.06	0.76	5
5177.264	1283.334	8.49	1.01	0.69	5
5187.257	1285.81[illegible]	8.20	0.94		7
5201.237	1289.27[illegible]	8.57	1.08	0.71	5
5548.261	1375.297	8.58	1.04		7
5569.238	1380.496	7.84	0.69		7
5574.220	1381.731	8.09	0.84		7
7592.938	1882.129	8.47	1.07	0.70	1
7594.846	1882.602	7.86	0.74	0.54	1
7595.826	1882.845	8.23	0.95	0.61	1
7597.810	1883.336	8.49	0.98	0.63	1
7600.810	1884.080	8.49	1.03	0.68	1
7601.780	1884.322	8.49	1.01	0.67	1
7623.736	1889.763	8.10	0.90	0.55	1
7626.775	1890.516	7.30	0.71	0.52	1
7634.912	1892.533	7.79	0.70	0.47	[illegible]
7635.729	1892.736	8.11	0.87	0.55	1
7645.839	1895.242	8.55	1.06	0.66	1
7647.719	1895.708	8.04	0.80	0.51	1
7649.786	1896.220	8.55	1.05	0.69	1
7653.766	1897.207	8.51	1.02	0.73	1
7656.701	1897.934	8.37	0.98	0.62	1

SW TAU

J.D.	CYCLES	V	B-V	U-B	RF
2860.899	1806.525	9.40	0.50		9
2882.640	1820.379	9.32	0.44		9
2882.869	1820.398	9.26	0.48		9
2882.986	1820.472	9.25	0.45		9
2883.759	1820.960	9.97	0.83		9
2883.858	1821.010	10.04	0.85		9
2883.885	1821.027	10.10	0.82		9
2887.735	1823.471	9.42	0.46		9
2887.751	1823.480	9.40	0.46		9
2887.809	1623.517	9.39	0.50		9
3178.947	2007.357	9.40	0.49		9
3180.967	2008.633	9.71	0.67		9
3190.933	2014.926	9.95	0.83		9
3238.853	2045.185	9.93	0.70		9
4334.944	2737.315	9.42	0.50		9
4341.934	2741.729	9.82	0.73		9

TABLE 1 (continued)

SW TAU CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4369.889	2759.362	9.40	0.48		9
4418.743	2790.231	9.77	0.59		9
4424.710	2793.998	10.14	0.83		9
4425.736	2794.646	9.75	0.67		9
7215.828	4556.459	9.41	0.55	0.34	1
7592.882	4794.551	9.63	0.65	0.50	1
7666.775	4842.475	9.46	0.55	0.46	1

SZ TAU

J.D.	CYCLES	V	B-V	U-B	RF
2824.990	897.111	6.65	0.89		8
2832.038	899.349	6.76	0.96		8
2832.949	899.638	6.61	0.80		8
2841.875	902.473	6.80	0.91		8
2848.910	904.707	6.52	0.76		8
2860.806	908.485	6.76	0.90		8
2864.912	909.788	6.45	0.75		8
2885.799	916.421	6.79	0.93		8
5505.279	1748.270	6.75	0.91		7
5532.291	1756.848	6.46	0.74		7
5535.247	1757.787	6.42	0.74		7
5542.241	1760.008	6.43	0.78		-7
5548.238	1761.912	6.44	0.81		7
5574.208	1770.159	6.59	0.83		7
7215.840	2291.480	6.62	0.92	0.51	1
7592.894	2411.218	6.65	0.95	0.61	1
7594.003	2411.570	6.51	0.86	0.53	1
7594.834	2411.834	6.38	0.80	0.54	1
7595.818	2412.147	6.62	0.92	0.60	1
7597.804	2412.77[illegible]	6.36	0.77	0.54	1
7600.793	2413.726	6.40	0.77	0.55	1
7601.783	2414.041	6.50	0.87	0.59	1
7619.823	2419.769	6.36	0.79	0.54	1
7623.704	2421.002	6.45	0.87	0.57	1
7634.839	2424.538	6.53	0.87	0.58	1
7635.691	2424.809	6.39	0.81	0.54	1
7645.797	2428.018	6.51	0.86	0.56	1
7646.700	2428.305	6.80	0.93	0.53	1
7647.683	2428.617	6.49	0.79	0.50	1
7649.769	2429.279	6.72	0.95	0.58	1
7654.695	2430.844	6.38	0.78	0.56	1
7655.643	2431.145	6.62	0.92	0.61	1
7656.660	2431.468	6.64	0.89	0.55	1
7663.670	2433.694	6.41	0.77	0.54	1

R TRA

J.D.	CYCLES	V	B-V	U-B	RF
4562.344	1346.107	6.72	0.77		7
4563.422	1346.425	7.00	0.89		7
4565.395	1347.008	6.62	0.70		7
4577.341	1350.532	6.90	0.81		7
4579.291	1351.108	6.67	0.74		-7
4585.284	1352.876	6.42	0.62		7
4586.294	1353.174	6.77	0.82		7
4587.283	1353.466	6.93	0.86		7
4588.320	1353.772	6.40	0.56		7

R TRA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4634.236	1367.319	6.92	0.85		7
4907.374	1447.908	6.44	0.62		7
4920.444	1451.764	6.40	0.56		7
4961.244	1463.802	6.47	0.59		7
4988.281	1471.779	6.42	0.55		7
5161.571	1522.908	6.42	0.65	0.38	5
5163.624	1523.513	6.83	0.86	0.57	5
5166.606	1524.393	6.85	0.86	0.63	5
5167.634	1524.697	6.50	0.66	0.39	5
5176.586	1527.338	6.84	0.85	0.60	5
5177.573	1527.629	6.72	0.75	0.48	5
5184.586	1529.698	6.50	0.66	0.40	5
5188.610	1530.885	6.46	0.60		7
5195.601	1532.948	6.45	0.69	0.42	5
5201.541	1534.701	6.50	0.65	0.38	5
5205.558	1535.886	6.41	0.63	0.37	5
5208.599	1536.783	6.33	0.58	0.33	5
5236.495	1545.014	6.54	0.73	0.46	5
5238.525	1545.613	6.77	0.77	0.48	5
5241.508	1546.493	6.89	0.84	0.56	5
5242.515	1546.790	6.33	0.58	0.33	5
5243.551	1547.096	6.64	0.78	0.51	5
5244.511	1547.379	6.87	0.85	0.59	5
5245.506	1547.672	6.63	0.69	0.41	5
5246.508	1547.968	6.50	0.70	0.44	5
5282.378	1558.551	6.92	0.82		7
5286.345	[illegible].722	6.47	0.61		7
5296.431	1562.698	6.54	0.62		7

S TRA

J.D.	CYCLES	V	B-V	U-B	RF
4562.431	721.511	6.12	0.56		7
4563.451	721.672	6.18	0.65		7
4564.390	721.821	6.34	0.76		7
4565.415	721.983	6.51	0.85		7
4567.397	722.296	6.81	0.94		7
4568.326	722.443	6.36	0.71		7
4569.415	722.616	6.11	0.57		7
4572.356	723.081	6.63	0.92		7
4574.312	723.390	6.62	0.79		7
4575.389	723.[illegible]	6.04	0.54		7
4576.337	723.710	6.21	0.67		7
4577.354	723.871	6.38	0.80		7
4578.319	724.024	6.56	0.87		7
4579.310	724.180	6.69	0.95		7
4580.327	724.341	6.75	0.90		7
5163.629	816.585	5.96	0.59	0.35	5
5167.629	817.218	6.71	0.98	0.74	5
5176.593	818.635	6.07	0.62	0.38	5
5177.580	818.797	6.28	0.78	0.53	5
5184.604	819.903	6.40	0.80	0.58	5
5185.672	820.071	6.59	0.92	0.69	5
5195.618	821.644	6.09	0.64	0.40	5
5201.562	822.584	6.02	0.58	0.35	5
5205.562	823.217	6.73	0.97	0.73	5
5208.602	823.698	6.15	0.68	0.43	5

TABLE 1 (continued)

S TRA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5236.499	828.109	6.59	0.93	0.69	5
5238.529	828.430	6.37	0.73	0.48	5
5241.526	828.904	6.37	0.82	0.58	5
5242.531	829.063	6.58	0.91	0.67	5
5243.569	829.227	6.73	0.97	0.73	5
5244.526	829.379	6.59	0.84	0.58	5
5245.513	829.536	6.02	0.57	0.34	5
5246.525	829.695	6.15	0.58	0.44	5

U TRA

J.D.	CYCLES	V	B-V	U-B	RF
4562.459	1776.024	8.02	0.62		7
4565.448	1777.588	7.82	0.53		7
4574.340	1781.050	8.10	0.71		7
4579.319	1782.989	8.06	0.72		7
4580.343	1783.387	8.02	0.63		7
4585.293	1785.315	8.00	0.62		7
4586.307	1785.709	7.87	0.61		7
4907.398	1910.728	7.69	0.64		7
4917.479	1914.653	7.76	0.57		7
4922.472	1916.598	7.40	0.42		7
4930.444	1919.701	7.86	0.61		7
5167.600	2012.040	8.07	0.77	0.48	5
5169.583	2012.812	7.94	0.69	0.44	5
5176.601	2015.544	7.58	0.51	0.28	5
5177.584	2015.927	8.06	0.75	0.50	5
5184.616	2018.665	7.86	0.62	0.36	5
5195.629	2022.953	8.12	0.77	0.51	5
5201.565	2025.264	8.22	0.75	0.48	5
5205.570	2026.824	7.84	0.65	0.39	5
5208.610	2028.007	8.15	0.78	0.51	5
5236.507	2038.869	7.89	0.65	0.40	5
5238.537	2039.660	7.68	0.57	0.33	5
5241.539	2040.828	7.93	0.69	0.42	5
5242.543	2041.219	8.12	0.73	0.47	5
5243.582	2041.624	7.50	0.47	0.22	5
5244.537	2041.996	8.07	0.76	0.50	5
5245.535	2042.384	7.73	0.53	0.28	5
5246.539	2042.775	7.94	0.70	0.43	5
5251.540	2044.722	7.85	0.64		7
5257.444	2047.021	8.13	0.78	0.51	5
5273.336	2053.209	8.09	0.72	0.44	6
5282.390	2056.734	7.85	0.61		7
5302.309	2064.490	7.50	0.41		7
5315.284	2069.541	7.66	0.49		7
5348.256	2082.379	.89	0.57		7
5349.244	2082.764	7.88	0.60		7
5567.552	2167.764	7.97	0.68		7
5573.622	2170.127	8.25	0.79		7
5580.413	2172.771	7.99	0.70		7
5595.370	2178.595	7.74	0.57		7
5608.452	2183.688	7.72	0.52		7
5609.377	2184.049	8.16	0.74		7
5609.464	2184.082	8.19	0.76		7
5611.384	2184.830	8.05	0.71		7
5611.450	2184.856	8.19	0.72		7

U TRA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5611.454	2184.857	8.08	0.73		7
5612.336	2185.201	8.32	0.76		7
5612.556	2185.286	8.12	0.66		7
5616.322	2186.753	7.83	0.60		7
5616.385	2186.781	7.93	0.65		7
5621.426	2188.740	7.76	0.55		7
5621.457	2188.752	7.79	0.61		-7
5622.322	2189.089	8.20	0.77		7
5622.416	2189.125	8.21	0.76		7
5623.397	2189.507	7.46	0.39		7
5623.485	2189.542	7.54	0.43		7
5624.302	2189.860	8.10	0.74		7
5624.487	2189.932	8.14	0.73		7
5625.520	2190.334	8.01	0.61		7
5626.346	2190.656	7.88	0.57		7
5626.395	2190.675	7.87	0.58		7
5626.502	2190.716	7.84	0.58		7
5627.305	2191.029	8.10	0.71		7
5627.353	2191.048	8.10	0.72		7
5628.368	2191.443	7.86	0.56		7
5628.408	2191.458	7.70	0.49		7
5629.309	2191.809	7.94	0.66		7
5630.377	2192.225	8.29	0.78		7
5631.291	2192.581	7.81	0.56		7
5631.472	2192.651	7.89	0.61		7
5634.257	2193.736	7.73	0.54		7
5636.236	2194.506	7.48	0.40		7
5636.306	2194.534	7.54	0.43		7
5637.326	2194.931	8.14	0.75		-7
5637.371	2194.948	8.14	0.75		7
5637.473	2194.988	8.17	0.74		7
5638.347	2195.328	8.09	0.66		-7
5639.255	2195.682	7.85	0.56		7
5639.278	2195.691	7.82	0.55		7
5640.293	2196.086	8.11	0.71		7
5640.381	2196.120	8.16	0.75		7
5641.288	2196.473	7.53	0.42		7
5641.394	2196.515	7.35	0.37		7
5642.211	2196.833	7.98	0.69		7
5642.425	2196.916	8.12	0.73		7
5643.295	2197.255	8.25	0.74		7
5643.472	2197.324	8.04	0.61		7
5644.352	2197.666	7.91	0.61		7
5646.442	2198.480	7.86	0.55		7
5647.213	2198.780	7.83	0.59		7
5647.238	2198.790	7.82	0.60		7
5652.264	2200.747	7.83	0.56		7
5654.282	2201.533	7.40	0.37		7
5655.411	2201.972	8.20	0.78		7
5656.255	2202.301	8.10	0.66		7
5656.407	2202.360	7.90	0.63		7
5657.236	2202.683	7.94	0.65		7
5657.350	2202.727	7.94	0.64		7
5660.304	2203.877	8.00	0.67		7
5660.341	2203.892	8.04	0.72		7
5661.408	2204.307	8.25	0.72		7
5664.209	2205.398	7.89	0.62		-7

TABLE I (continued)

U TRA CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5665.360	2205.846	7.90	0.62		7
5667.212	2206.567	8.01	0.66		7
5668.363	2207.015	8.20	0.76		7
5669.205	2207.343	8.00	0.60		7
5672.319	2208.555	7.49	0.39		7
5677.212	2210.461	7.98	0.59		7
5678.408	2210.926	8.03	0.68		7
5681.222	2212.022	8.24	0.79		7
5682.204	2212.404	7.93	0.55		7
5683.202	2212.793	7.97	0.67		7
5685.202	2213.572	7.49	0.42		7
5686.218	2213.967	8.17	0.76		7
5687.398	2214.427	7.64	0.41		7
5688.202	2214.740	8.01	0.67		7
5689.208	2215.131	8.17	0.73		7
5691.207	2215.910	8.00	0.70		7
5691.261	2215.931	8.00	0.70		7
5692.332	2216.348	8.24	0.70		7

T VEL

J.D.	CYCLES	V	B-V	U-B	RF
3765.140	811.491	8.20	0.99		9
3776.010	813.834	8.29	0.99		9
3778.070	814.278	8.03	0.91		9
3779.015	814.482	8.19	1.00		9
3796.915	818.340	8.14	0.97		9
3797.005	818.359	7.71	0.73		9
4510.245	972.082	7.82	0.79		7
4519.298	974.033	7.71	0.72		7
4565.220	983.931	7.86	0.67		-7
4808.158	1036.290	8.08	0.92		9
4820.022	1038.847	8.13	0.88		9
4826.107	1040.159	7.85	0.86		9
4830.003	1040.999	7.73	0.73		9
4833.069	1041.659	8.32	1.07		9
4834.035	1041.868	8.11	0.87		9
4834.326	1041.930	7.86	0.78		-7
4839.244	1042.990	7.70	0.76		7
4840.058	1043.166	7.92	0.86		9
4840.289	1043.215	7.91	0.91		7
4844.069	1044.030	7.72	0.76		9
4844.985	1044.228	7.97	0.91		9
4847.992	1044.876	8.05	0.88		9
4855.991	1046.600	8.32	1.03		9
4859.015	1047.251	8.01	0.90		9
4867.336	1049.045	7.77	0.75		7
4867.984	1049.185	7.88	0.88		9
4872.001	1050.050	7.75	0.75		9
4872.995	1050.265	8.01	0.95		9
4888.251	1053.122	7.88	0.85		7
4890.293	1053.993	7.72	0.75		7
4895.244	1055.060	7.76	0.79		7
5163.380	1112.850	8.05	0.96	0.69	5
5169.387	1114.145	7.80	0.89	0.61	5
5177.349	1115.861	8.06	0.95	0.65	5
5201.334	1121.031	7.69	0.78	0.49	5

T VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5208.370	1122.547	8.20	1.09	0.83	5
5246.273	1130.716	8.30	1.09	0.81	5
5257.248	1133.082	7.75	0.82	0.53	5

V VEL

J.D.	CYCLES	V	B-V	U-B	RF
4521.228	1034.371	7.39	0.68		7
4529.283	1036.214	7.24	0.60		7
4533.299	1037.133	7.58	0.71		7
4885.333	1117.672	7.76	0.88		7
4886.286	1117.890	7.89	0.94		7
4890.342	1118.818	7.80	0.94		7
4893.290	1119.492	7.52	0.79		7
4895.269	1119.945	7.94	0.95		7
4901.319	1121.329	7.35	0.68		7
4913.231	1124.054	7.78	0.89		7
4917.238	1124.971	7.93	0.92		-7
4918.265	1125.206	7.27	0.60		-7
4920.263	1125.663	7.67	0.90		-7
5169.407	1182.663	7.65	0.28	0.61	5
5177.379	1184.486	7.43	0.81	0.53	5
5185.458	1186.335	7.29	0.69	0.41	5
5201.359	1189.973	7.89	0.96	0.68	5
5208.393	1191.582	7.59	0.88	0.60	5
5238.333	1198.431	7.42	0.78	0.52	5
5245.317	1200.029	7.87	0.92	0.64	5
5246.286	1200.251	7.20	0.62	0.36	5
5275.199	1206.866	7.81	0.96	0.54	6
5292.220	1210.760	7.74	0.93	0.65	5
5293.236	1210.992	7.90	0.94	0.67	5

RY VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.345	160.367	7.98	1.16		7
4512.351	160.439	8.07	1.25		7
4534.303	161.219	8.12	1.18		7
4535.329	161.256	7.95	1.08		7
4536.294	161.290	7.93	1.12		7
4847.283	172.347	7.98	1.19		7
4929.290	175.263	7.93	1.11		7
4932.278	175.369	8.05	1.24		7
5164.424	183.624	8.39	1.51	1.19	5
5184.405	184.334	7.98	1.16	0.82	5
5192.453	184.620	8.38	1.51	1.19	5
5195.426	184.726	8.56	1.58	1.28	5
5198.425	184.832	8.68	1.60	1.27	5
5208.409	185.187	8.23	1.25	0.89	5
5238.350	186.252	7.91	1.10	0.74	5
5244.333	186.465	8.16	1.35	1.00	5
5267.290	187.281	7.89	1.11	0.77	5
5268.269	187.316	7.92	1.14	0.77	5
5270.290	187.388	8.03	1.23	0.87	5

TABLE 1 (continued)

RZ VEL

J.D.	CYCLES	V	B-V	U-B	RF
3765.135	184.597	6.53	0.79		9
3776.006	185.130	7.52	1.48		9
3776.992	185.178	7.56	1.48		9
3778.040	185.230	7.65	1.50		9
3779.010	185.277	7.66	1.39		9
3796.910	186.155	7.55	1.49		9
4517.244	221.471	7.53	1.28		7
4519.290	221.572	6.45	0.73		7
4562.198	223.675	6.66	0.89		-7
4808.151	235.734	6.78	1.00		9
4820.036	236.317	7.55	1.36		9
4826.115	236.615	6.52	0.77		9
4830.022	236.806	6.88	1.15		9
4833.062	236.955	7.14	1.35		9
4834.056	237.004	7.25	1.36		9
4844.081	237.496	7.29	1.14		9
4844.997	237.540	6.49	0.72		9
4848.002	237.688	6.69	0.92		9
4865.348	238.538	6.52	0.78		7
4866.281	238.584	6.42	0.76		7
4867.977	238.667	6.61	0.91		9
4871.996	238.864	6.95	1.23		9
4873.008	238.914	7.11	1.29		9
4886.243	239.563	6.48	0.75		7
4906.285	240.545	6.49	0.53		-7
4907.239	240.592	6.60	0.87		7
5169.382	253.444	7.56	1.33	1.03	5
5177.345	253.835	6.93	1.23	0.95	5
5201.325	255.010	7.24	1.42	1.18	5
5208.362	255.355	7.59	1.38	1.10	5
5246.265	257.214	7.63	1.50	1.25	5
5247.218	257.261	7.63	1.46	1.23	5
5267.238	258.242	7.64	1.49	1.25	5

ST VEL

J.D.	CYCLES	V	B-V	U-B	RF
4834.344	825.195	9.60	1.13		7
4869.369	831.174	9.54	1.15		7
4886.260	834.057	9.44	1.04		7
5164.389	881.532	9.81	1.35	1.04	5
5239.310	894.321	9.66	1.24	0.89	5
5242.322	894.835	9.93	1.29	1.04	5
5257.258	897.384	9.71	1.27	0.99	5
5267.251	899.090	9.40	1.07	0.75	5
5270.253	899.602	9.91	1.39	1.00	5
5947.484	946.924	9.64	1.20		7
5595.331	955.091	9.41	1.09		7
5612.280	957.985	9.42	1.07		7
5630.271	961.055	9.41	1.04		7

SV VEL

J.D.	CYCLES	V	B-V	U-B	RF
4517.395	320.449	7.91	0.77		7
453.377	321.512	8.16	0.88		7
4572.222	324.339	8.80	1.17		7
4869.447	345.423	8.10	0.83		7

SV VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5155.434	366.420	8.07	0.64	0.52	5
5167.435	366.561	8.23	0.99	0.68	5
5198.463	368.762	8.65	1.25	0.87	5
5242.389	371.878	8.76	1.35	1.03	5
5244.402	372.021	9.01	1.40	1.08	5
5245.384	372.090	9.06	1.39	1.11	5
5246.342	372.158	9.03	1.34	1.01	5
5292.248	375.415	8.10	0.86	0.53	5

SW VEL

J.D.	CYCLES	V	B-V	U-B	RF
4519.308	192.521	8.56	1.25		7
4520.265	192.562	7.85	0.86		7
4521.195	192.601	7.56	0.77		7
4544.213	193.582	7.63	0.79		7
4546.217	193.667	7.59	0.81		7
4808.170	204.826	7.92	1.14		9
4830.007	205.756	7.84	1.07		9
4833.072	205.887	7.99	1.25		9
4834.040	205.928	8.03	1.27		9
4840.063	206.185	8.50	1.57		9
4844.988	206.395	8.74	1.47		9
4847.995	206.523	8.53	1.23		9
4872.004	207.545	8.13	1.03		9
4872.999	207.588	7.59	0.79		9
4922.196	209.684	7.60	0.89		-7
5163.389	219.958	8.01	1.34	1.11	5
5164.386	220.001	8.09	1.40	1.15	5
5167.365	220.128	8.37	1.46	1.20	5
5201.341	221.575	7.62	0.82	0.53	5
5208.374	221.875	7.96	1.24	0.94	5
5238.31[illegible]	223.150	8.42	1.50	1.24	5
5256.286	223.916	8.01	1.31	1.03	5
5257.253	223.957	8.08	1.35	1.07	5
5270.241	224.510	8.61	1.32	1.0[illegible]	5
5481.238	233.499	8.74	1.33		9

SX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.253	472.281	8.01	0.76		7
4519.314	473.230	8.00	0.73		7
4520.283	473.332	8.08	0.77		7
4529.269	474.273	7.97	0.74		7
4834.334	506.[illegible]17	8.07	0.74		-7
4921.189	515.312	8.09	0.83		-7
4930.185	516.254	8.02	0.76		-7
5169.400	541.302	7.96	0.79	0.53	5
5176.363	542.032	8.01	0.78	0.51	5
5177.363	542.136	8.01	0.80	0.53	5
5201.348	544.643	8.56	1.10	0.82	5
5208.382	545.364	8.18	0.95	0.67	5
5238.315	548.519	8.36	1.05	0.77	5
5245.313	549.252	7.93	0.78	0.50	5
5270.248	551.863	8.53	1.02	0.75	5
5292.207	554.162	8.01	0.80	0.51	5

TABLE 1 (continued)

SX VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5568.410	583.084	8.02	0.75		7
5626.223	589.138	8.04	0.78		7
5636.198	590.182	8.00	0.80		7

XX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4532.357	648.910	10.26	0.98		7
4533.326	649.049	10.44	1.09		7
4573.275	654.768	11.00	1.32		7
4839.279	692.853	10.53	1.09		7
4895.378	700.885	10.37	1.01		7
4917.306	704.024	10.41	1.04		7
4924.299	705.025	10.36	1.06		7
5164.472	739.412	10.87	1.37	1.06	-5
5167.406	739.832	10.58	1.16	0.88	-5
5184.436	742.270	10.53	1.20	0.96	-5
5192.491	743.423	10.83	1.35	1.04	-5
5195.460	743.848	10.53	1.11	0.76	5
5223.298	747.834	10.59	1.15	0.69	6
5239.356	750.133	10.53	1.19	0.80	-5
5242.362	750.563	11.01	1.45	1.06	-5
5244.374	750.851	10.53	1.05	0.77	5
5245.356	750.992	10.31	1.02	0.71	5
5270.313	754.565	11.03	1.34	1.13	-5

AE VEL

J.D.	CYCLES	V	B-V	U-B	RF
4522.242	633.938	10.15	1.18		7
4529.304	634.928	10.20	1.21		7
4531.316	635.210	10.03	1.25		7
4573.215	641.084	9.88	1.08		7
4865.381	682.040	9.89	1.07		7
4886.308	684.974	9.99	1.11		[illegible]
4895.319	686.237	10.18	1.24		7
4922.270	690.015	9.89	1.09		7
5144.403	723.958	10.04	1.13	0.76	5
5165.392	724.095	9.91	1.08	0.74	5
5184.374	726.757	10.67	1.42	1.25	-5
5185.475	726.912	10.28	1.26	0.85	5
5239.315	734.459	10.32	1.38	1.03	-5
5242.331	734.882	10.41	1.30	0.92	-5
5246.301	735.438	10.30	1.32	0.99	-5
5257.286	736.978	9.93	1.12	0.75	5
5267.262	738.377	10.17	1.29	1.05	-5
5270.267	738.798	10.64	1.39	0.99	-5
5276.205	739.630	10.60	1.47	1.13	5

AH VEL

J.D.	CYCLES	V	B-V	U-B	RF
3775.892	893.243	5.53	0.52		9
3776.889	893.479	5.70	0.63		9
3777.909	893.720	5.87	0.64		9
3778.901	893.955	5.79	0.62		9
3783.993	895.160	5.51	0.55		9
4454.110	1053.666	5.89	0.64		9

AH VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4519.277	1069.102	5.59	0.50		7
4523.258	1070.044	5.66	0.52		7
4532.209	1072.161	5.52	0.48		7
4536.206	1073.107	5.66	0.50		7
4545.203	1075.235	5.54	0.49		7
4833.330	1143.396	5.68	0.57		7
4834.285	1143.622	5.87	0.63		7
4835.394	1143.884	5.76	0.62		7
4847.244	1146.688	5.84	0.66		7
4865.326	1150.965	5.79	0.60		7
4866.259	1151.186	5.51	0.47		7
4867.291	1151.430	5.68	0.58		7
4869.295	1151.904	5.84	0.62		7
4885.270	1155.683	5.89	0.65		7
4893.238	1157.568	5.81	0.63		7
4895.232	1158.040	5.69	0.57		7
4908.208	1161.109	5.65	0.51		7
4913.208	1162.292	5.51	0.54		-7
4918.218	1163.477	5.88	0.63		-7
5161.383	1221.002	5.70	0.62	0.39	5
5169.348	1222.886	5.80	0.67	0.43	5
5176.351	1224.543	5.74	0.67	0.45	5
5177.335	1224.775	5.82	0.70	0.48	5
5201.302	1230.445	5.68	0.64	0.41	5
5208.322	1232.106	5.57	0.57	0.34	5
5209.355	1232.350	5.42	0.61	0.38	5
5270.193	1246.742	5.83	0.69	0.47	5
5841.212	1381.825	5.80	0.65		9

AM VEL

J.D.	CYCLES	V	B-V	U-B	RF
4533.236	602.587	13.54	1.39		7
4534.209	602.716	13.02	1.13		-7
4535.205	602.849	12.92	0.90		7
4836.315	642.608	13.45	1.13		-7
4865.339	646.732	13.01	0.96		7
5525.434	735.805	12.92	0.81		7
5573.429	740.856	12.91	0.93		7
5609.318	745.627	13.60	1.42		7

AP VEL

J.D.	CYCLES	V	B-V	U-B	RF
4522.209	1446.161	9.49	0.79		7
4531.225	1449.065	9.77	0.91		7
4535.221	1450.343	9.67	0.89		7
4869.357	1557.198	9.69	0.88		7
4885.280	1562.290	9.65	0.86		7
4919.255	1573.155	9.96	1.05		-7
5164.377	1651.544	9.84	1.06	0.72	5
5167.357	1652.497	9.94	1.06	0.79	5
5194.435	1661.156	10.08	1.05		[illegible]
5223.339	1670.399	9.99	1.01		7
5239.304	1675.505	9.85	0.99	0.59	5
5242.317	1676.469	10.00	1.06	0.74	5
5246.277	1677.735	10.10	1.12	0.79	5
5256.282	1680.934	10.42	1.24		7

TABLE I (continued)

AP VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5267.242	1684.439	10.07	1.10	0.73	5
5270.237	1685.397	9.70	0.94	0.61	5
5274.189	1686.661	10.18	1.14	0.78	6

AX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4519.268	1742.261	8.34	0.75		7
4522.197	1743.390	8.41	0.70		7
4529.229	1746.101	8.37	0.77		7
4833.323	1863.335	8.39	0.80		7
4834.278	1863.703	8.20	0.66		7
4835.384	1864.129	8.22	0.72		7
4839.238	1865.615	7.94	0.56		7
4847.237	1868.699	7.99	0.61		7
4861.322	1874.129	8.30	0.76		-7
4867.284	1876.428	8.40	0.78		7
4869.291	1877.201	8.34	0.78		7
4885.263	1883.359	8.50	0.81		7
4889.270	1884.904	8.32	0.69		7
4907.224	1891.825	8.31	0.73		7
4914.226	1894.525	8.29	0.73		-7
4917.204	1895.673	8.11	0.61		-7
5161.370	1989.803	8.13	0.72	0.44	5
5169.343	1992.877	8.10	0.68	0.42	5
5176.346	1995.577	8.07	0.66	0.40	5
5177.330	1995.956	8.10	0.72	0.47	5
5194.424	2002.546	8.27	0.70		7
5201.298	2005.196	8.43	0.86	0.58	5
5208.317	2007.902	8.20	0.77	0.49	5
5209.341	2008.297	8.37	0.81	0.53	5
5246.245	2022.524	8.10	0.68	0.41	5
5256.257	2026.384	8.37	0.8[illegible]	0.55	5
5256.260	2026.385	8.46	0.7[illegible]		7
5257.239	2026.762	8.04	0.66	0.40	5
5270.224	2031.765	8.11	0.70	0.44	5

BC VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.267	651.436	7.92	1.07		-7
4517.266	652.448	7.44	1.05		7
4529.275	654.182	7.87	1.25		7
4530.266	654.325	7.59	1.11		7
4532.266	654.613	7.51	1.14		7
4833.382	698.106	7.88	1.33		7
4834.362	698.247	7.77	1.17		-7
4839.252	698.953	7.76	1.29		7
4847.259	700.111	7.93	1.33		7
4865.356	702.724	7.64	1.20		7
4867.344	703.011	7.85	1.31		7
4869.378	703.305	7.64	1.16		7
4885.352	705.605	7.56	1.13		7
4890.317	706.329	7.59	1.14		7
4895.252	707.042	7.88	1.32		7
4901.306	707.916	7.77	1.29		7
4906.307	708.638	7.57	1.18		7

BG VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4918.241	710.362	7.55	1.12		-7
4919.265	710.510	7.45	1.12		7
4921.227	710.793	7.69	1.25		-7
5163.399	745.771	7.55	1.20	0.90	5
5176.375	747.645	7.49	1.17	0.88	5
5177.368	747.789	7.58	1.24	0.93	5
5201.351	751.255	7.71	1.20	0.88	5
5208.385	752.269	7.69	1.19	0.84	5
5238.320	756.592	7.52	1.13	0.83	5
5257.274	759.330	7.56	1.14	0.81	5
5270.257	761.205	7.81	1.25	0.91	5
5276.210	762.065	7.98	1.33	0.94	6
5292.213	764.376	7.48	1.09	0.75	5

CO VEL

J.D.	CYCLES	V	B-V	U-B	RF
4532.247	1060.051	12.84	1.60		7
4546.203	1063.315	12.27	1.55		7
4812.408	1125.578	12.62	2.00		7
4914.241	1149.396	12.49	1.74		-7
4918.229	1150.328	12.35	1.77		-7
5555.455	1299.370	12.36	1.80		7
5567.375	1302.158	12.17	1.64		7
5609.293	1311.962	12.93	1.83		7

CX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4521.206	722.809	11.12	1.32		7
4533.272	724.738	11.35	1.39		7
4534.221	724.890	11.06	1.30		7
4535.236	725.052	11.26	1.44		7
4885.293	[illegible].016	11.22	1.42		7
4890.307	781.617	11.06	1.33		-7
4921.216	786.759	11.22	1.45		-7
4922.208	786.918	11.05	1.41		-7

DD VEL

J.D.	CYCLES	V	B-V	U-B	RF
4532.281	343.490	12.43	1.53		7
4533.290	343.566	12.32	1.63		7
4534.281	343.642	12.18	1.40		7
4535.257	343.716	12.17	1.53		7
4890.331	370.626	12.29	1.39		-7
4895.251	370.847	12.31	1.71		-7
4918.251	372.742	12.24	1.61		-7
4920.237	372.892	12.32	1.65		-7
4929.196	373.571	12.39	1.53		-7

DP VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.295	822.389	11.66	1.22		7
4531.297	826.219	12.12	1.67		7
4532.309	826.463	11.50	1.33		7
4544.249	828.580	11.61	1.34		7
4895.281	892.586	11.63	1.3[illegible]		7

TABLE 1 (continued)

DP VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4921.257	897.322	11.89	1.29		-7
4922.241	897.502	11.51	1.22		-7
4929.213	898.773	11.97	1.54		-7
5223.356	952.406	11.55	1.26		7
5251.293	957.500	11.49	1.26		7

DR VEL

J.D.	CYCLES	V	B-V	U-B	RF
4536.280	405.025	9.58	1.51		7
4561.203	407.250	9.30	1.40		-7
4865.366	434.408	9.42	1.57		7
4886.296	436.276	9.25	1.39		7
4895.292	437.080	9.57	1.51		7
4917.248	439.040	9.55	1.51		-7
4929.225	440.109	9.53	1.48		-7
4930.195	440.196	9.24	1.36		-7
5223.376	466.373	9.34	1.53		7
5224.377	466.462	9.49	1.62		7
5256.295	469.312	9.25	1.44		7
5285.216	471.894	9.82	1.67		7
5286.220	471.984	9.64	1.59		7

EX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.281	340.790	11.25	1.43		7
4536.247	342.752	11.35	1.42		7
4565.235	344.942	11.56	1.50		7
4573.201	345.544	12.04	1.54		-7
4893.273	369.728	11.45	1.48		7
4895.260	369.878	11.26	1.52		7
4920.251	371.766	11.20	1.47		-7
4921.238	371.841	11.31	1.46		-7
4922.226	371.915	11.32	1.66		-7
5224.362	394.744	11.38	1.45		7
5285.203	399.341	12.03	1.78		7

FG VEL

J.D.	CYCLES	V	B-V	U-B	RF
4517.277	700.006	11.61	1.45		7
4529.294	701.868	11.62	1.40		7
4531.305	702.180	11.70	1.61		7
4532.319	702.337	11.89	1.70		7
4895.308	758.586	12.07	1.78		7
4923.256	762.762	11.99	1.49		-7
4924.237	763.069	11.77	1.38		-7
4929.235	763.844	11.65	1.52		-7
5253.244	814.053	11.62	1.51		7
5303.206	821.795	11.83	1.54		7
5310.194	822.878	11.62	1.43		-7

W VIR

J.D.	CYCLES	V	B-V	U-B	RF
2944.976	170.458	9.63	0.54		9
2948.042	170.636	9.51	0.61		9

W VIR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3040.819	176.006	10.09	0.92		9
3059.740	177.101	10.55	0.95		9
3060.795	177.162	10.64	0.97		9
3062.741	177.275	10.53	0.76		9
3063.771	177.334	10.34	0.64		9
3069.726	177.679	9.51	0.62		9
3082.767	178.434	9.98	0.52		9
3083.762	178.492	9.77	0.48		9
3087.743	178.722	9.46	0.68		9
3089.726	178.837	9.64	0.74		9
3090.729	178.895	9.70	0.78		9
3091.722	178.952	9.80	0.85		9
3092.740	179.011	10.15	0.92		9
4900.693	283.657	9.52	0.64	0.44	12
4901.708	283.716	9.53	0.68	0.47	12
4904.697	283.889	9.85	0.79	0.74	12
4907.703	284.063	10.64	1.02	0.84	12
4907.791	284.068	10.64	1.03	0.80	12
4921.701	284.885	9.84	0.81	0.64	12
4922.692	284.931	10.05	0.89	0.80	12
4923.685	284.988	10.30	0.97	0.96	12
4923.753	284.992	10.35	0.96	0.92	12
4924.683	285.046	10.55	1.03	0.98	12
4924.739	285.049	10.58	1.02	0.96	12
4925.682	285.104	10.69	0.98	0.84	12
4926.687	285.162	10.65	0.88	0.54	12
4927.689	285.220	10.54	0.76	0.34	12
4928.678	285.277	10.43	0.69	0.24	12
4933.688	285.567	9.57	0.58	0.25	12
4934.687	285.625	9.48	0.62	0.33	12
4935.674	285.682	9.51	0.67	0.41	12
4936.684	285.741	9.51	0.67	0.51	12
4950.674	286.556	9.52	0.58	0.26	12
4951.671	286.608	[illegible]	0.59	0.41	12
4963.672	287.303	10.39	0.74	0.24	12
4964.663	287.360	10.11	0.53	0.15	12
4965.658	287.418	9.68	0.44	0.12	12
4966.659	287.476	9.56	0.46	0.17	12
5188.597	300.322	10.23	0.57		7
5308.331	307.252	10.60	0.78		7
5309.261	307.306	10.46	0.72		7
5555.582	321.563	9.69	0.66		7
5567.532	322.255	10.44	0.68		7
5608.420	324.622	9.20	1.09		-7
5609.435	324.680	9.63	0.74		7
5611.488	324.799	9.83	0.84		7
5612.350	324.849	9.93	0.89		7
5621.406	325.373	9.98	0.57		7
5622.333	325.427	9.57	0.48		7
5623.358	325.486	9.07	1.51		-7
5624.262	325.538	9.59	0.59		7
5626.313	325.657	9.59	0.67		7
5627.262	325.712	9.59	0.70		7
5628.333	325.774	9.66	0.72		7
5629.298	325.830	9.80	0.77		7
5630.325	325.890	9.97	0.84		7
5631.280	325.945	10.16	0.91		7

TABLE 1 (continued)

AP VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5267.242	1684.439	10.07	1.10	0.73	5
5270.237	1685.397	9.70	0.94	0.61	5
5274.189	1686.661	10.18	1.14	0.76	6

AX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4519.268	1742.261	8.34	0.75		7
4522.197	1743.399	8.41	0.70		7
4529.229	1746.101	8.37	0.77		7
4833.323	1863.335	8.39	0.80		7
4834.278	1863.703	8.20	0.66		7
4835.384	1864.129	8.22	0.72		7
4839.238	1865.615	7.94	0.56		7
4847.237	1868.699	7.99	0.61		7
4861.322	1874.129	8.30	0.76		-7
4867.284	1876.428	8.40	0.78		7
4869.291	1877.201	8.34	0.78		7
4885.263	1883.359	8.50	0.81		7
4889.270	1884.904	8.32	0.69		7
4907.224	1891.825	8.31	0.73		7
4914.226	1894.525	8.29	0.73		-7
4917.204	1895.673	8.11	0.61		-7
5161.370	1989.803	8.13	0.72	0.44	5
5169.343	1992.877	8.10	0.68	0.42	5
5176.346	1995.577	8.07	0.66	0.40	5
5177.330	1995.956	8.10	0.72	0.47	5
5194.424	2002.546	8.27	0.70		7
5201.298	2005.196	8.43	0.86	0.58	5
5208.317	2007.902	8.20	0.77	0.49	5
5209.341	2008.297	8.37	0.81	0.53	5
5246.245	2022.524	8.10	0.68	0.41	5
5256.257	2026.384	8.37	0.82	0.55	5
5256.260	2026.385	8.46	0.79		7
5257.239	2026.762	8.04	0.66	0.40	5
5270.224	2031.768	8.11	0.70	0.44	5

BB VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.260	651.436	7.92	1.07		-7
4517.266	652.448	7.44	1.05		7
4529.275	654.192	7.87	1.25		7
4530.266	654.325	7.59	1.11		7
4532.260	654.613	7.51	1.14		7
4833.382	698.106	7.88	1.32		7
4834.362	698.247	7.77	1.17		-7
4839.252	698.953	7.76	1.29		7
4847.269	700.111	7.93	1.33		7
4865.356	702.724	7.64	1.20		7
4867.348	703.011	7.85	1.31		7
4869.378	703.305	7.64	1.16		7
4885.302	705.605	7.56	1.13		7
4890.317	706.329	7.59	1.14		7
4895.252	707.042	7.88	1.32		7
4901.306	707.916	7.77	1.29		7
4906.307	708.638	7.57	1.18		7

BG VEL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4918.241	710.362	7.55	1.12		-7
4919.265	710.510	7.45	1.12		7
4921.227	710.793	7.69	1.25		-7
5163.399	745.771	7.55	1.20	0.90	5
5176.375	747.645	7.49	1.17	0.88	5
5177.368	747.789	7.58	1.24	0.93	5
5201.351	751.253	7.71	1.20	0.88	5
5208.385	752.269	7.69	1.19	0.84	5
5238.320	756.592	7.52	1.13	0.83	5
5257.274	759.330	7.56	1.14	0.81	5
5270.257	761.205	7.81	1.25	0.91	5
5276.210	762.065	7.88	1.33	0.94	6
5292.213	764.376	7.48	1.09	0.75	5

CO VEL

J.D.	CYCLES	V	B-V	U-B	RF
4532.247	1060.051	12.84	1.60		7
4546.203	1063.315	12.27	1.55		7
4812.408	1125.578	12.62	2.00		7
4914.241	1149.396	12.49	1.74		-7
4918.229	1150.328	12.35	1.77		-7
5555.455	1299.370	12.36	1.80		7
5567.375	1302.158	12.17	1.64		7
5609.293	1311.962	12.93	1.83		7

CX VEL

J.D.	CYCLES	V	B-V	U-B	RF
4521.206	722.809	11.12	1.32		7
4533.272	724.738	11.35	1.39		7
4534.221	724.890	11.06	1.30		7
4535.236	725.052	11.26	1.44		7
4885.293	781.016	11.22	1.42		7
4890.307	781.817	11.06	1.33		-7
4921.216	786.759	11.32	1.45		-7
4922.208	786.918	11.05	1.41		-7

DD VEL

J.D.	CYCLES	V	B-V	U-B	RF
4532.281	343.490	12.43	1.53		7
4533.290	343.566	12.32	1.63		7
4534.281	343.642	12.18	1.40		7
4535.257	343.716	12.17	1.53		7
4890.331	370.626	12.29	1.39		-7
4893.251	370.847	12.31	1.71		-7
4918.251	372.742	12.24	1.61		-7
4920.237	372.892	12.33	1.65		-7
4929.196	373.571	12.39	1.53		-7

DP VEL

J.D.	CYCLES	V	B-V	U-B	RF
4510.295	822.389	11.66	1.22		7
4531.297	826.219	12.12	1.62		7
4532.309	826.403	11.50	1.33		7
4544.249	828.580	11.61	1.34		7
4895.281	892.586	11.63	1.32		7

TABLE 1 (continued)

W VIR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5632.302	326.004	10.25	1.19		-7
5634.218	326.115	10.57	0.85		7
5637.284	326.292	10.24	0.58		7
5641.249	326.522	9.65	0.56		7
5652.251	327.158	10.75	0.90		7
5667.199	328.024	10.55	0.97		7
7014.732	406.020	10.49	1.01	0.83	1
7020.789	406.371	9.90	0.49	0.09	1
7021.809	406.430	9.48	0.41	0.10	1
7022.803	406.488	9.49	0.49	0.15	1
7023.876	406.550	9.56	0.57	0.23	1
7043.810	407.703	9.57	0.69	0.47	1
7044.719	407.756	9.76	0.74	0.58	1
7049.856	408.053	10.56	0.98	0.80	1
7050.779	408.107	10.71	0.92	0.64	1
7052.787	408.223	10.48	0.69	0.25	1
7057.688	408.507	9.59	0.52	0.18	1
7083.720	410.013	10.49	0.97	0.78	1
7087.658	410.241	10.48	0.69	0.17	1
7094.674	410.648	9.55	0.66	0.41	1
7099.745	410.941	10.19	0.96	0.86	1
7100.705	410.997	10.47	1.03	0.91	1
7102.736	411.114	10.84	0.98	0.73	1
7131.656	412.788	9.65	0.74	0.60	1
7453.665	431.426	9.68	0.47	0.18	1
7455.659	431.542	9.59	0.57	0.25	1
7462.701	431.949	10.13	0.89	0.75	1
7469.692	432.354	10.03	0.49	0.14	1
7470.677	432.411	9.72	0.41	0.15	1
7472.701	432.528	9.58	0.55	0.24	1

XX VIR

J.D.	CYCLES	V	B-V	U-B	RF
7052.815	5231.256	12.56	0.45		1
7054.775	5232.709	11.65	0.15	0.57	1
7057.701	1010.470	12.14	0.32	0.03	1
7083.744	5254.196	12.51	0.45		1
7087.676	5257.113	12.45	0.42	0.04	1
7087.759	5257.175	12.54	0.46	-0.01	1
7099.762	5266.077	12.37	0.39	0.02	1
7100.722	5266.789	11.86	0.21	0.08	1
7111.667	5274.907	12.14	0.29	0.09	1
7112.660	5275.644	11.92	0.25	0.02	1
7112.663	5275.646	11.87	0.19	0.10	1
7112.665	5275.648	11.85	0.21	0.05	1
7112.667	5275.649	11.81	0.19	0.10	1
7112.669	5275.651	11.80	0.20	0.06	1
7112.672	5275.652	11.77	0.17	0.11	1
7112.674	5275.654	11.76	0.18	0.05	1
7112.674	5275.655	11.72	0.18	0.08	1
7112.678	5275.657	11.72	0.18	0.08	1
7112.680	5275.659	11.71	0.16	0.10	1
7112.694	5275.669	11.62	0.15	0.09	1
7112.696	5275.671	11.62	0.13	0.10	1
7112.699	5275.673	11.60	0.14	0.10	1
7112.702	5275.675	11.61	[illegible]	0.09	1

XX VIR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7113.719	5276.430	12.65	0.46	0.04	1
7113.722	5276.432	12.65	0.46	0.02	1
7113.724	5276.433	12.65	0.46	0.04	1
7113.727	5276.435	12.66	0.45	0.02	1
7113.729	5276.437	12.66	0.44	0.05	1
7113.731	5276.439	12.66	0.47	0.02	1
7114.643	5277.115	12.49	0.41	0.06	1
7114.645	5277.116	12.49	0.41	0.04	1
7114.648	5277.118	12.49	0.42	0.06	1
7114.651	5277.120	12.49	0.42	0.06	1
7114.653	5277.122	12.49	0.42	0.06	1
7114.656	5277.124	12.49	0.44	0.06	1
7114.690	5277.150	12.53	0.43	0.07	1
7114.693	5277.152	12.53	0.44	0.05	1
7114.695	5277.153	12.53	0.44	0.06	1
7114.698	5277.155	12.53	0.43	0.05	1
7114.701	5277.158	12.54	0.43	0.07	1
7114.707	5277.162	12.51	0.45	0.04	1
7131.676	5289.749	11.72	0.14	0.08	1

AL VIR

J.D.	CYCLES	V	B-V	U-B	RF
2948.063	286.221	9.61	0.56		9
3027.855	293.967	9.73	0.83		9
3040.826	295.227	9.63	0.54		9
3059.785	297.067	9.86	0.69		9
3060.795	297.165	9.80	0.62		9
3061.753	297.258	9.59	0.54		9
3062.750	297.355	9.25	0.43		9
3063.781	297.455	9.16	0.44		9
3081.743	299.199	9.69	0.60		9
3089.733	299.975	9.06	0.82		9
3090.735	300.072	9.80	0.67		9
3091.729	300.169	9.73	0.60		9
3092.750	300.268	9.40	0.49		9
3093.736	300.364	9.16	0.39		9
3095.740	300.559	9.26	0.58		9
3096.736	300.655	9.38	0.67		9
7015.844	681.152	9.88	0.70	0.41	1
7020.795	681.633	9.26	0.51	0.30	1
7021.816	681.732	9.51	0.66	0.39	1
7022.808	681.828	9.66	0.78	0.53	1
7023.881	681.932	9.75	0.78	0.54	1
7043.821	683.868	9.74	0.79	0.51	1
7044.734	683.957	10.09	0.78	0.61	1
7050.787	684.544	9.16	0.42	0.26	1
7052.797	684.740	9.49	0.67	0.37	1
7054.724	684.927	9.84	0.79	0.52	1
7063.729	687.743	9.50	0.64	0.38	1
7087.668	688.125	9.97	0.74	0.49	1
7094.684	688.806	9.62	0.69	0.42	1
7099.754	689.298	9.75	0.57	0.30	1
7100.715	689.392	9.37	0.42	0.23	1
7102.745	689.589	9.17	0.42	0.26	1
7131.656	692.397	9.38	0.37	0.23	1
7455.668	723.853	9.64	0.71	0.50	1

TABLE 1 (continued)

AL VIR CONT.

J.D.	CYCLES	V	B-V	U-B	RF
7458.678	724.146	9.95	0.76	0.54	1
7459.695	724.244	9.84	0.66	0.43	1
7460.696	724.341	9.77	0.55	0.33	1
7462.708	724.537	9.15	0.38	0.30	1
7469.699	725.216	9.95	0.69	0.50	1
7470.683	725.311	9.83	0.59	0.40	1

T VUL

J.D.	CYCLES	V	B-V	U-B	RF
2758.774	621.965	5.42	0.47		8
2768.778	624.220	5.80	0.64		8
2770.875	624.693	6.12	0.80		8
2771.889	624.922	5.52	0.48		8
2772.868	625.142	5.67	0.60		8
2773.799	625.352	5.92	0.72		8
3102.804	699.525	6.02	0.83		8
3103.849	699.762	6.05	0.75		8
3133.726	706.498	6.02	0.82		8
3146.771	709.439	5.97	0.78		8
3153.878	711.041	5.50	0.50		8
3154.854	711.261	5.77	0.68		8
3158.757	712.141	5.68	0.63		8
3159.757	712.367	5.97	0.75		8
3179.698	716.862	5.70	0.60		8
5349.290	1205.996	5.46	0.48		7
5370.331	1210.740	6.03	0.73		7
7131.906	1607.887	5.61	0.52	0.30	1
7142.830	1610.349	5.86	0.75	0.42	1
7143.876	1610.585	6.02	0.81	0.48	1
7144.855	1610.806	5.82	0.63	0.31	1
7147.863	1611.484	5.98	0.80	0.47	1
7178.804	1618.460	5.93	0.75	0.47	1
7183.743	1619.573	5.99	0.79	0.48	1
7213.701	1626.327	5.84	0.71	0.42	1
7214.684	1626.549	6.03	0.80	0.45	1
7215.665	1626.770	5.94	0.74	0.36	1
7220.627	1627.889	5.52	0.48	0.29	1
7221.649	1628.119	5.50	0.58	0.33	1
7515.829	1694.442	5.95	0.75	0.52	1

U VUL

J.D.	CYCLES	V	B-V	U-B	RF
5302.515	663.588	6.82	1.15		7
5343.337	668.697	6.94	1.15		7
5647.442	706.754	6.93	1.23		7
5652.396	707.374	7.40	1.43		7
5654.429	707.628	6.75	1.12		7
5655.509	707.764	6.85	1.23		7
5661.428	708.504	7.11	1.26		7
5668.480	709.387	7.40	1.40		7
5669.462	709.510	7.08	1.24		7
6731.811	842.458	7.22	1.34		2
6735.769	842.954	7.12	1.36		2
6735.956	842.977	7.19	1.39		2
6736.813	843.084	7.33	1.45		2
6736.930	843.099	7.35	1.45		2

U VUL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
6741.811	843.710	6.91	1.21		2
6742.737	843.826	6.98	1.27		2
6744.819	844.086	7.34	1.46		2
6745.852	844.215	7.43	1.51		2
6746.758	844.329	7.50	1.50		2
6746.822	844.337	7.42	1.45		2
6747.769	844.455	7.24	1.36		2
6748.791	844.583	6.83	1.15		2
6749.803	844.710	6.87	1.22		2
6753.842	845.215	7.44	1.51		2
6755.886	845.471	7.19	1.34		2
6757.725	845.701	6.89	1.21		2
6757.942	845.728	6.90	1.25		2
6761.791	846.210	7.43	1.50		2
6767.729	846.953	7.10	1.36		2
6794.640	850.321	7.46	1.45	1.10	2
6811.753	852.463	7.23	1.34	0.97	2
6812.892	852.605	6.83	1.14	0.74	2
6833.771	855.218	7.43	1.50	1.17	2
6836.721	855.587	6.81	1.18	0.84	2
6852.726	857.590	6.75	1.16	0.79	2
6858.710	858.339	7.46	1.44		2
7191.683	900.009	7.20	1.41	1.02	1
7198.724	900.891	6.97	1.28	0.91	1
7200.767	901.146	7.39	1.49	1.16	1
7201.777	901.273	7.52	1.49	1.29	1
7201.782	901.273	7.50	1.51		1
7202.645	901.381	7.43	1.44	1.01	1
7226.690	904.390	7.43	1.45	0.99	1
7232.656	905.137	7.41	1.47	1.13	1
7233.609	905.256	7.48	1.49	1.16	1
7237.612	905.757	6.95	1.23	0.84	1
7239.601	906.006	7.23	1.42	1.01	1
7451.919	932.577	6.84	1.17	0.82	1
7461.926	933.829	6.93	1.27	0.88	1
7469.915	934.829	7.00	1.25	0.90	1
7516.805	940.697	6.93	1.23	0.89	1

X VUL

J.D.	CYCLES	V	B-V	U-B	RF
3093.962	489.605	8.95	1.52		8
3094.955	489.762	9.09	1.60		8
3095.955	489.921	9.25	1.64		8
3096.941	490.077	9.17	1.52		8
3098.938	490.393	8.71	1.33		8
3101.962	490.871	9.20	1.63		8
3102.955	491.028	9.25	1.63		8
3103.957	491.187	8.75	1.32		8
3122.823	494.172	8.82	1.36		8
3123.917	494.345	8.64	1.24		8
3125.913	494.661	8.95	1.53		8
3126.924	494.821	9.19	1.62		8
3153.823	499.078	9.19	1.54		8
3154.809	499.234	8.55	1.20		8
4905.528	776.277	3.84	0.24		-7

TABLE 1 (concluded)

X VUL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
5348.356	846.353	8.53	1.31		7
5372.280	850.138	9.00	1.51		7
7118.906	1126.534	8.77	1.46	1.04	1
7147.764	1131.100	9.13	1.59	1.17	1
7148.849	1131.272	8.47	1.27	0.89	1
7149.865	1131.433	8.61	1.39	0.99	1
7156.856	1132.539	8.70	1.47	1.08	1
7159.806	1133.006	9.18	1.68	1.36	1
7178.724	1136.000	9.17	1.66	1.34	1
7201.729	1139.640	8.84	1.52	1.14	1
7202.720	1139.797	9.03	1.64	1.22	1
7205.699	1140.268	8.44	1.27	0.90	1
7213.741	1141.541	8.67	1.50	1.08	1
7215.642	1141.842	9.11	1.68	1.26	1
7461.940	1180.817	9.05	1.63	1.26	1
7462.929	1180.974	9.20	1.64	1.37	1
7469.928	1182.081	9.22	1.59	1.26	1
7472.879	1182.548	8.76	1.47	1.10	1
7516.836	1189.504	8.80	1.44	1.18	1

SV VUL

J.D.	CYCLES	V	B-V	U-B	RF
2761.740	61.232	7.80	1.58		8
2764.781	61.299	7.24	1.29		8
2765.764	61.321	7.02	1.15		8
2766.840	61.345	6.89	1.11		8
2768.740	61.387	6.85	1.13		8
2770.647	61.434	6.90	1.19		8
2771.792	61.455	6.90	1.21		8
2772.844	61.478	6.95	1.25		8
2773.788	61.499	6.96	1.31		8
2774.844	61.522	6.98	1.39		8
2776.927	61.569	6.99	1.44		8
2777.830	61.589	7.08	1.51		8
2778.816	61.610	6.93	1.49		8
2779.826	61.633	7.00	1.51		8
2780.820	61.655	6.96	1.51		8
2784.771	61.743	7.14	1.63		8
2797.807	62.032	7.74	1.77		8
2809.719	62.296	7.04	1.31		8
2822.804	62.586	6.94	1.46		8
2841.662	63.004	7.55	1.75		8
2848.699	63.160	7.74	1.77		8
2860.597	63.424	6.73	1.17		8

SV VUL CONT.

J.D.	CYCLES	V	B-V	U-B	RF
3092.948	68.575	7.06	1.43		8
3093.955	68.598	6.97	1.45		8
3094.948	68.620	7.02	1.52		8
3095.948	68.642	7.04	1.50		8
3096.936	68.664	7.05	1.54		8
3098.944	68.708	7.22	1.57		8
3101.958	68.775	7.25	1.67		8
3102.948	68.797	7.27	1.68		8
3103.951	68.819	7.31	1.69		8
3123.910	69.262	7.69	1.46		8
3125.910	69.306	7.11	1.23		8
3126.917	69.328	6.95	1.14		8
3131.753	69.436	6.95	1.19		8
3132.715	69.457	6.96	1.20		8
3133.781	69.481	7.03	1.23		8
3134.913	69.506	6.97	1.27		8
3136.736	69.546	7.05	1.36		8
3137.764	69.569	7.13	1.41		8
3152.812	69.903	7.39	1.68		8
3153.826	69.925	7.49	1.68		8
3154.802	69.947	7.51	1.70		8
5343.343	118.470	6.78	1.20		7
5348.317	118.580	6.93	1.38		7
7050.967	156.330	6.87	1.20	0.87	1
7118.917	157.837	7.41	1.70	1.66	1
7147.787	158.477	6.86	1.30	0.99	1
7148.863	158.501	6.90	1.35	1.05	1
7159.797	158.743	7.22	1.69	1.51	1
7178.713	159.163	7.75	1.76	1.62	1
7202.696	159.694	7.21	1.63	1.38	1
7205.682	159.761	7.26	1.66	1.49	1
7213.718	159.939	7.44	1.76	1.65	1
7226.699	160.227	7.72	1.67	1.42	1
7229.669	160.292	7.10	1.28	0.99	1
7232.663	160.359	6.78	1.12	0.84	1
7233.615	160.380	6.73	1.14	0.84	1
7237.615	160.469	6.89	1.28	0.99	1
7239.608	160.513	6.94	1.35	1.06	1
7451.944	165.221	7.63	1.65	1.33	1
7461.933	165.442	6.86	1.27	1.01	1
7469.921	165.619	7.18	1.54	1.33	1
7472.872	165.685	7.19	1.60	1.45	1
7521.818	166.770	7.27	1.66	1.53	1
7541.745	167.212	7.59	1.59	1.43	1

TABLE 2
UNCONFIRMED OBSERVATIONS

GS CAR

J.D.	CYCLES	V	B-V	U-B	RF
4534.338	1118.164	12.44	1.16		7
4546.263	1121.109	12.51	1.07		7
4562.285	1125.059	12.46	0.98		7
4567.226	1126.278	12.59	1.10		-7
4886.354	1204.975	12.26	0.95		7
4895.390	1207.203	12.47	1.12		-7
4931.219	1216.039	12.52	1.08		-7

HS CAR

J.D.	CYCLES	V	B-V	U-B	RF
4569.223	897.318	12.09	1.29		7
4925.222	967.230	12.15	1.28		-7

IM CAR

J.D.	CYCLES	V	B-V	U-B	RF
4569.268	856.270	11.77	1.14		7
4574.230	857.199	11.66	1.19		-7
4953.245	928.226	11.67	1.16		-7

IO CAR

J.D.	CYCLES	V	B-V	U-B	RF
4513.355	331.718	11.17	1.35		7
4329.393	332.897	11.22	1.34		7
4530.392	332.970	11.15	1.23		7
4572.247	336.046	11.03	1.34		7
5165.489	379.648	10.93	1.17	0.98	-5
5167.472	379.794	10.95	1.14	0.76	-5
5185.535	381.121	10.65	1.16	0.80	-5
5186.502	381.192	10.76	1.16	0.95	-5
5223.350	383.901	11.18	1.25	0.95	6
5242.424	385.302	10.61	1.25	0.95	-5
5244.432	385.450	10.68	1.23	1.01	-5
5276.192	387.784	11.21	1.27	0.97	6

AW CAS

J.D.	CYCLES	V	B-V	U-B	RF
7196.847	1682.163	12.97	1.10	1.12	1

BD CAS

J.D.	CYCLES	V	B-V	U-B	RF
7184.845	1967.755	11.11	1.37	0.87	1
7220.779	1977.597	11.22	1.40	0.91	1
7263.660	1989.341	11.08	1.39	0.87	1

BV CAS

J.D.	CYCLES	V	B-V	U-B	RF
7196.858	1332.840	12.84	0.63	0.06	1

IU CEN

J.D.	CYCLES	V	B-V	U-B	RF
4569.357	1376.619	12.50	0.78		7

IU CEN CONT.

J.D.	CYCLES	V	B-V	U-B	RF
4572.324	1377.513	12.36	0.66		7
4575.376	1378.433	12.69	0.47		7
4867.487	1466.437	12.55	0.56		7
4947.283	1490.478	12.41	0.66		7
4950.257	1491.374	13.04	0.57		7

IZ CEN

J.D.	CYCLES	V	B-V	U-B	RF
4567.263	775.062	12.60	1.68		-7
4568.266	775.228	12.69	1.74		-7

LV CEN

J.D.	CYCLES	V	B-V	U-B	RF
4568.250	918.267	12.36	1.60		7

RW CMA

J.D.	CYCLES	V	B-V	U-B	RF
6854.018	1196.287	10.81	1.14		2
6856.992	1196.806	11.38	1.38		2
6858.999	1197.156	10.95	1.21		2

WW CMA

J.D.	CYCLES	V	B-V	U-B	RF
5166.302	895.994	9.23	0.62	0.35	5
5167.307	896.168	9.57	0.64	0.37	5
5169.306	896.515	9.19	0.61	0.35	5
5176.281	897.725	9.28	0.51	0.34	5
5177.269	897.896	9.41	0.62	0.36	5
5195.275	901.019	9.39	0.62	0.35	5
5201.258	902.057	9.31	0.61	0.32	5
5209.256	903.444	9.23	0.62	0.34	5
5238.223	908.467	9.24	0.60	0.34	5
5239.212	908.639	9.30	0.61	0.33	5
5242.214	909.160	9.19	0.63	0.33	5
5256.202	911.586	9.17	0.63	0.33	5

BE CRA

J.D.	CYCLES	V	B-V	U-B	RF
4574.532	1371.057	13.31	0.26		7

QT CRA

J.D.	CYCLES	V	B-V	U-B	RF
4567.542	57.711	12.27	1.12		7
4572.467	57.773	12.28	1.14		7
4577.508	57.837	12.25	1.16		7
4919.610	62.160	12.35	1.19		-7
4952.403	62.574	12.32	1.07		7
4979.383	62.915	12.24	1.13		-7
4989.258	63.040	12.35	1.13		-7
5328.276	67.323	12.26	1.07		7
5331.285	67.361	12.24	1.08		7

TABLE 2 (continued)

EZ CYG

J.D.	CYCLES	V	B-V	U-B	RF
4989.382	427.906	10.73	1.29		-7

EK DEL

J.D.	CYCLES	V	B-V	U-B	RF
5343.372	2610.719	11.90	0.29		7

DX GEM

J.D.	CYCLES	V	B-V	U-B	RF
4812.293	1534.596	10.90	1.09		7
5555.309	1771.537	10.79	1.07		7
5567.279	1775.354	10.65	0.99		-7
5568.279	1775.673	10.92	1.02		7

AL LYR

J.D.	CYCLES	V	B-V	U-B	RF
5343.297	411.548	11.76	1.11		-7
7232.645	557.069	12.31	1.35	1.34	1

EN LYR

J.D.	CYCLES	V	B-V	U-B	RF
7232.636	3058.766	12.20	0.51	0.01	:

BV MON

J.D.	CYCLES	V	B-V	U-B	RF
4812.321	1596.497	11.26	1.11		7
5547.384	1840.[illegible]36	11.07	1.00		7
5555.339	1842.995	11.64	1.19		7

CS MON

J.D.	CYCLES	V	B-V	U-B	RF
4812.279	720.322	10.90	1.22		7
5547.274	830.340	10.98	1.36		7
5555.273	831.537	11.26	1.35		7
5568.266	833.482	11.17	1.32		7

EK MON

J.D.	CYCLES	V	B-V	U-B	RF
5547.371	1401.655	11.17	1.37		7
5568.312	1406.946	11.28	1.34		7
5573.293	1408.205	10.77	1.11		7

GR NOR

J.D.	CYCLES	V	B-V	U-B	RF
4567.422	2330.36[illegible]	12.38	1.27		-7
4569.428	2332.38[illegible]	12.30	1.30		7
4577.443	2335.478	12.44	1.19		-7
4922.485	2511.523	12.36	1.22		7
4979.335	2540.529	12.38	1.19		7

GZ NOR

J.D.	CYCLES	V	B-V	U-B	RF
4565.462	127.023	12.87	1.15		7
4567.465	127.079	13.06	1.14		-7
4568.345	127.103	13.24	1.22		-7
4921.472	136.928	12.88	1.19		-7
4925.442	137.039	13.05	1.28		-7

446 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4576.429	159.937	13.28	1.15		-7
4578.438	160.007	13.05	0.69		-7
4579.435	160.042	12.51	0.79		7
4953.395	173.111	12.74	0.78		-7
4980.316	174.052	12.46	0.77		-7

507 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4568.555	387.202	13.13	0.88		7
4569.475	387.280	13.12	0.76		7
4570.382	387.357	12.95	1.00		7

549 SCO

J.D.	CYCLES	V	B-V	U-B	RF
4578.418	276.642	13.81	0.63		7
5308.399	320.749	13.70	0.78		7
5309.323	320.805	13.51	0.85		7
5310.274	320.863	13.45	0.99		7

377 SGR

J.D.	CYCLES	V	B-V	U-B	RF
7143.799	441.159	12.30	1.31	1.42	1
7159.715	442.142	12.92	1.06	0.51	1
7236.608	446.273	13.07	1.05	0.76	1

383 SGR

J.D.	CYCLES	V	B-V	U-B	RF
4572.[illegible]44	277.899	12.28	0.62		7
4573.546	277.960	12.17	0.69		7
4574.51[illegible]	278.018	12.22	0.67		7
4575.552	278.081	12.27	0.75		7

397 SGR

J.D.	CYCLES	V	B-V	U-B	RF
4578.468	153.940	13.23	1.16		7
4980.336	1[illegible].696	12.90	1.45		-7
5302.367	155.117	12.81	1.18		7
5331.268	155.768	13.16	1.28		-7

995 SGR

J.D.	CYCLES	V	B-V	U-B	RF
7083.848	223.423	12.50	0.78	0.42	1

TABLE 2 (concluded)

1077 SGR

J.D.	CYCLES	V	B-V	U-B	RF
4568.555	340.206	12.52	0.49		7

RT TRA

J.D.	CYCLES	V	B-V	U-B	RF
5304.235	2725.572	9.59	0.78	0.55	6
5306.289	2726.627	9.72	0.85	0.66	6
5309.270	2728.159	9.88	0.75	0.55	6
5311.284	2729.194	9.79	0.68	0.45	6

CP VEL

J.D.	CYCLES	V	B-V	U-B	RF
4517.258	459.029	12.64	1.68		7
4536.232	460.957	12.84	1.43		7
4812.429	489.023	12.70	1.50		-7
4920.222	499.977	12.58	1.62		-7
4921.198	500.976	12.68	1.56		-7

CY VEL

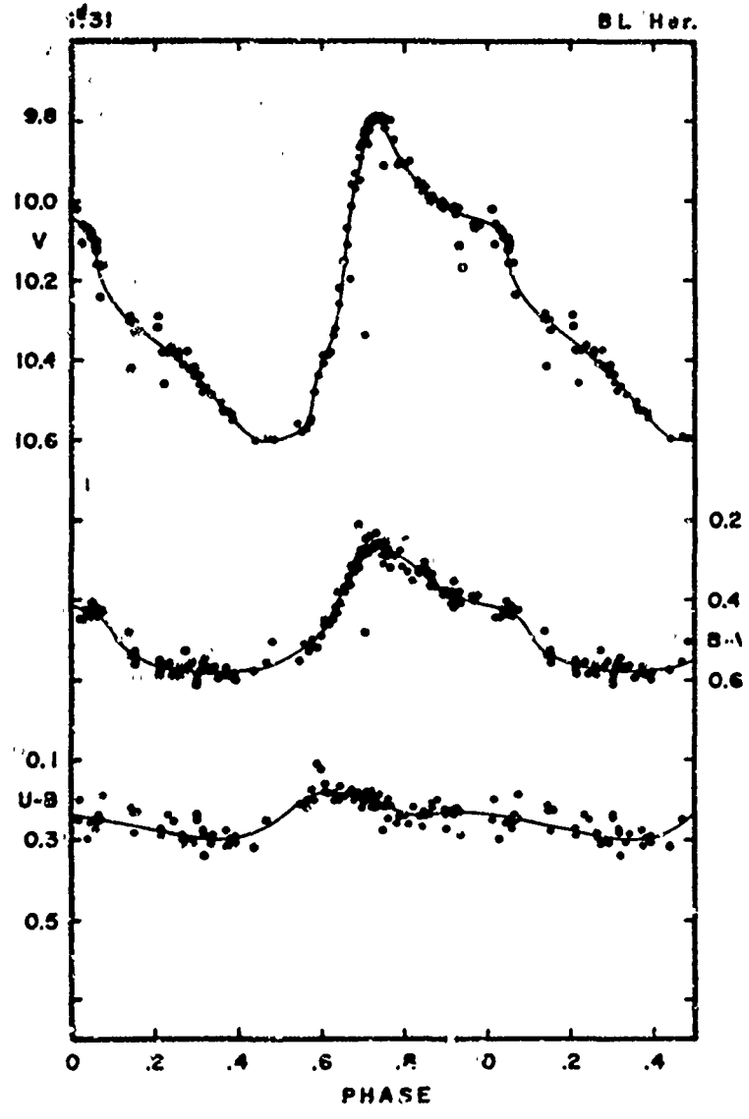
J.D	CYCLES	V	B-V	U-B	RF
4513.26[illegible]	231.109	12.60	1.12		-7
4531.234	232.030	12.93	1.16		7
4532.268	232.082	12.64	1.14		7
4533.281	232.134	12.57	1.01		7
4534.259	232.184	12.33	1.19		7
4885.318	250.161	12.75	0.99		7
4886.274	250.210	12.59	1.06		7
4925.203	252.203	12.39	1.20		-7
5275.262	270.129	12.60	1.51		-7

EZ VEL

J.D.	CYCLES	V	B-V	U-B	RF
4531.279	131.210	12.06	1.54		7
4532.292	131.239	11.91	1.48		7
4533.309	131.269	11.89	1.51		7
4534.289	131.297	11.95	1.47		7
4535.270	131.325	11.97	1.59		7

REFERENCE NUMBERS FOR CATALOGUE TABLES

1. New data obtained by the authors at McDonald Observatory.
2. Weaver, H., Steinmetz, D., and Mitchell, R., 1961. *Lowell Observatory Bull.* 5, 30.
3. Oosterhoff, P. Th., 1960. *B. A. N.*, 15, 199.
4. Bahner, K., Hiltner, W. A. and Kraft, R. P. 1962. *Ap. J. Suppl.* 6, 319.
5. Irwin, J. B. 1961. *Ap. J. Suppl.* 6, 253. (Refractor measures).
6. Irwin, J. B. 1961. *Ap. J. Suppl.* 6, 253. (Reflector measures).
7. Wahlaven, Th., Muller, A. B. and Oosterhoff, P. Th., 1958. *B. A. N.* 14, 81.
8. Eggen, O. J., 1951, *Ap. J.* 113, 367.
9. Eggen, O. J., Gascoigne, S. C. B., and Burr, E. J., *M. N.* 117, 406.
11. Abt, H. A. and Hardie, R. H. 1960. *Ap. J.* 131, 155.
12. Arp, H. C. 1957. *A. J.* 62, 129.
    Arp, H. C., Sandage, A. and Stephens, C. 1959. *Ap. J.* 130, 80.
13. Arp, H. C. 1958. *Ap. J.* 128, 166.
14. Arp, H. C. 1960. *Ap. J.* 131, 322.
15. Fernie, J. D. 1961. *Ap. J.* 133, 64.
16. Harris, D. L. 1953. *Ap. J.* 118, 346.
17. Hoag, A. A. et al. 1961. *Pub. U. S. Naval Ob. Sec. Series* 17, 349
18. Johnson, H. L., 1960. *Ap. J.* 131, 620.
19. Wampler, J., Peth, P. and Hiltner, W. A. 1961. *Ap. J.* 133, 895.
20. Sandage, A., 1958. *Ap. J.* 128, 150
21. Sandage, A. 1960. *Ap. J.* 131, 610.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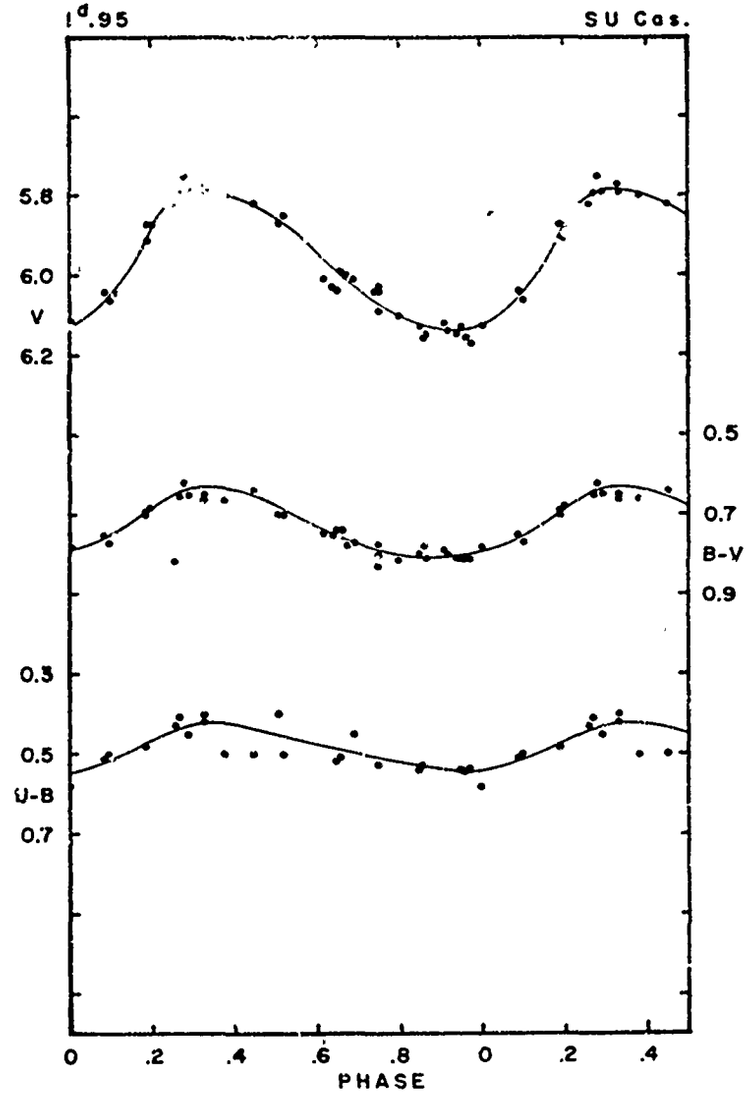
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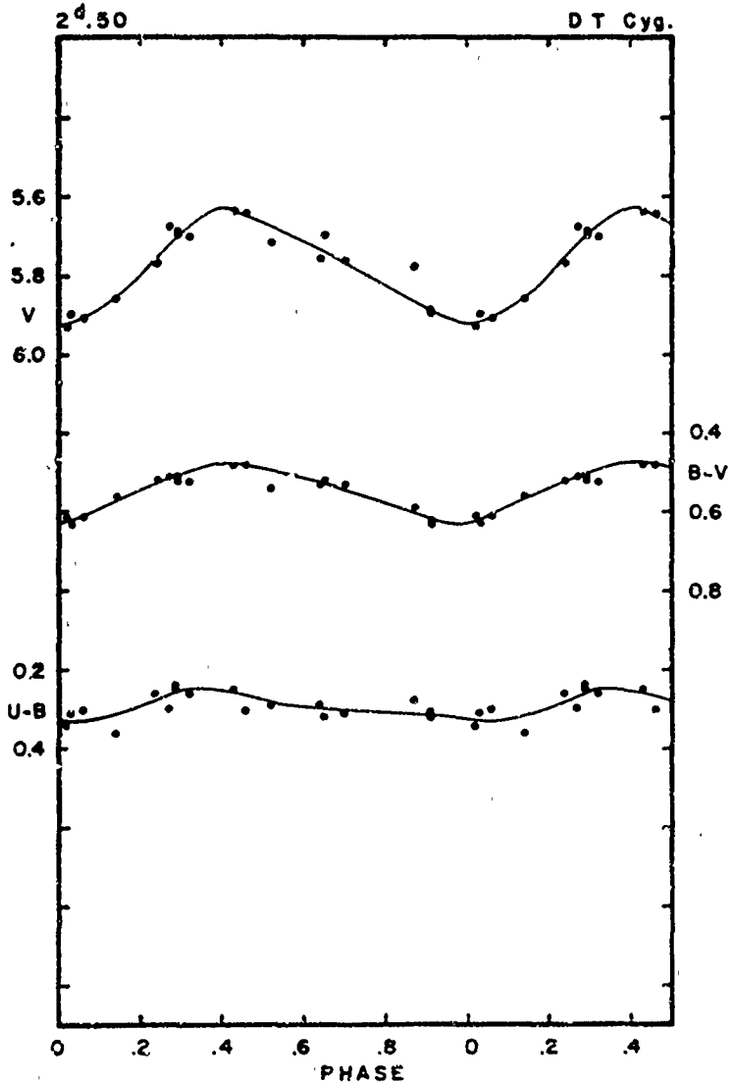
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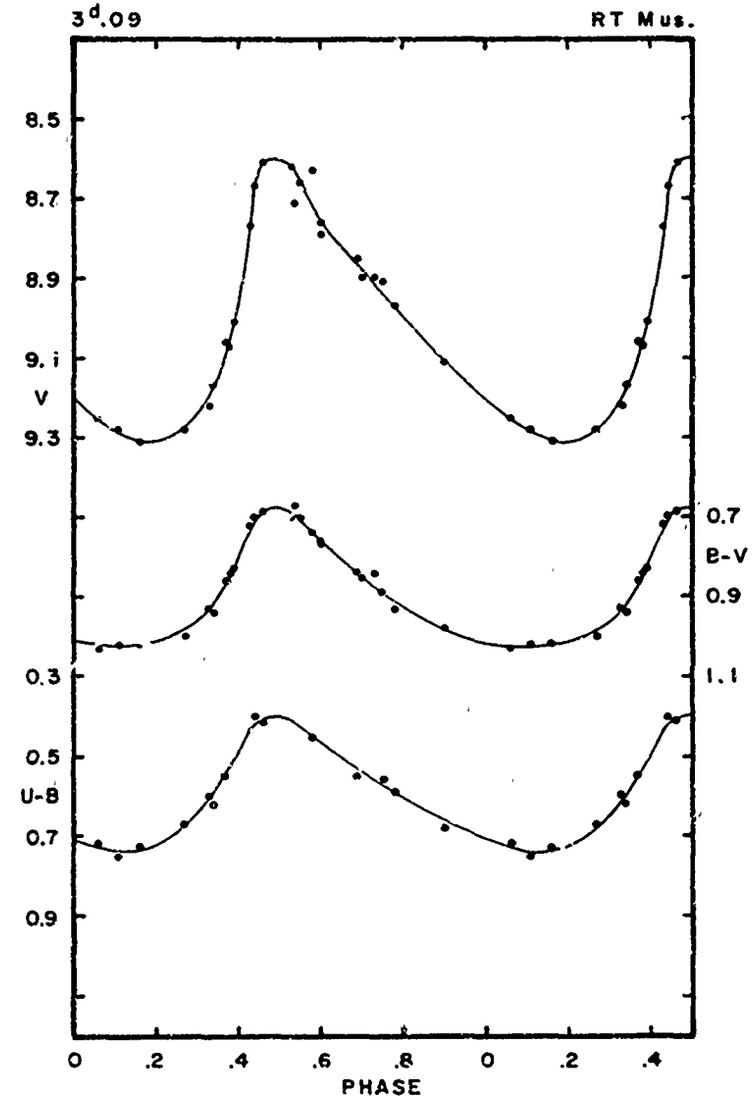
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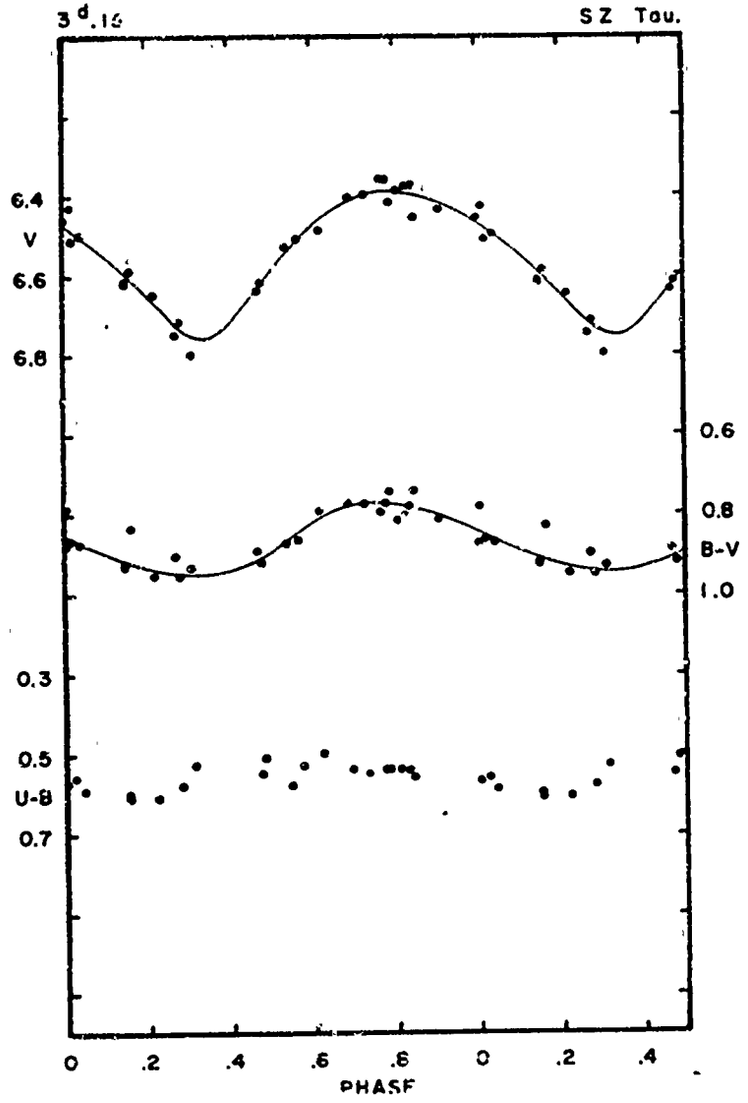
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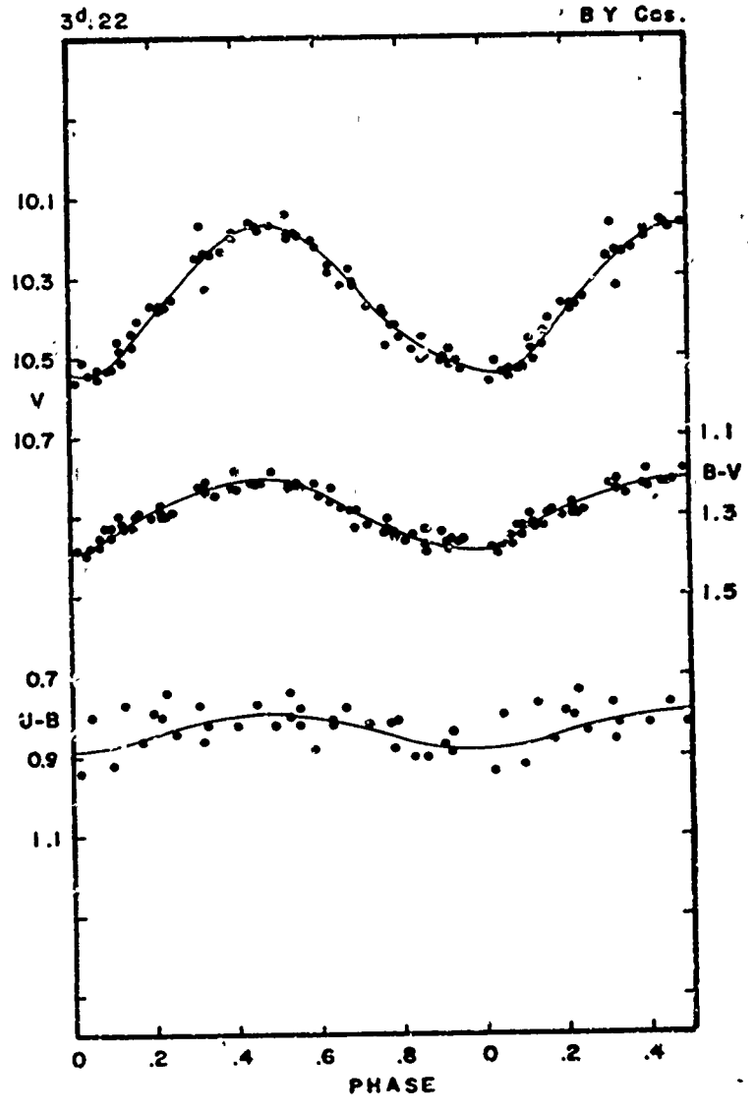
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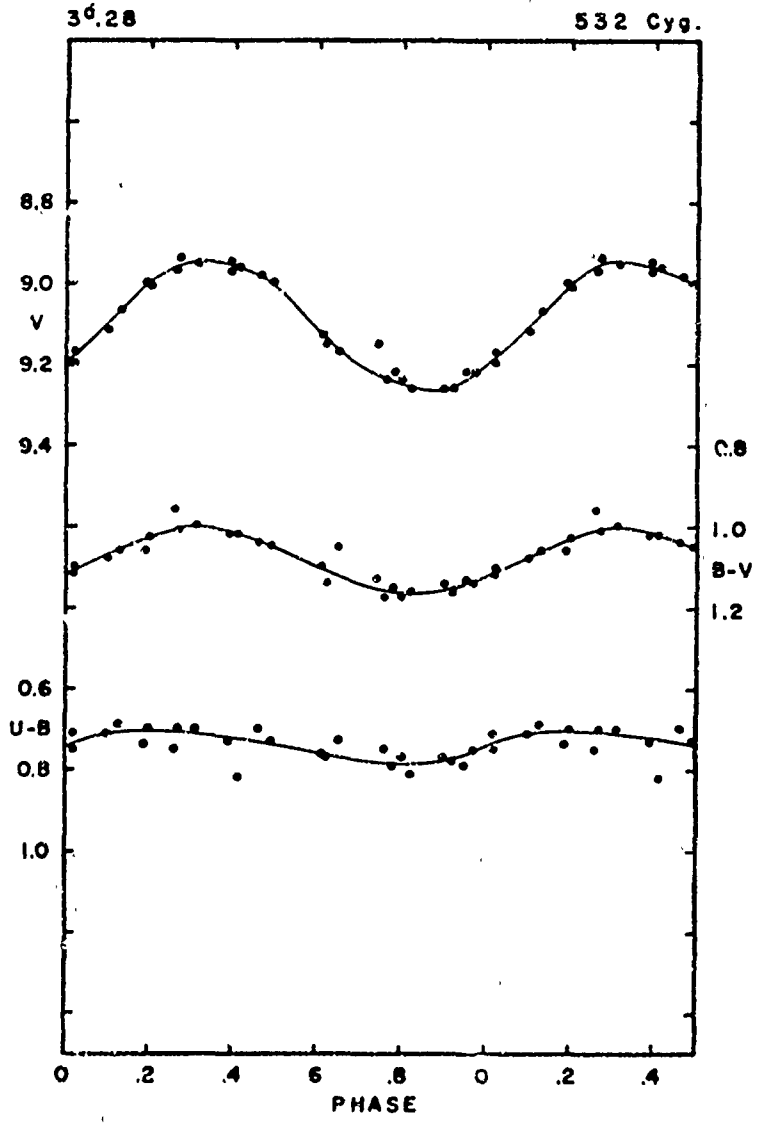
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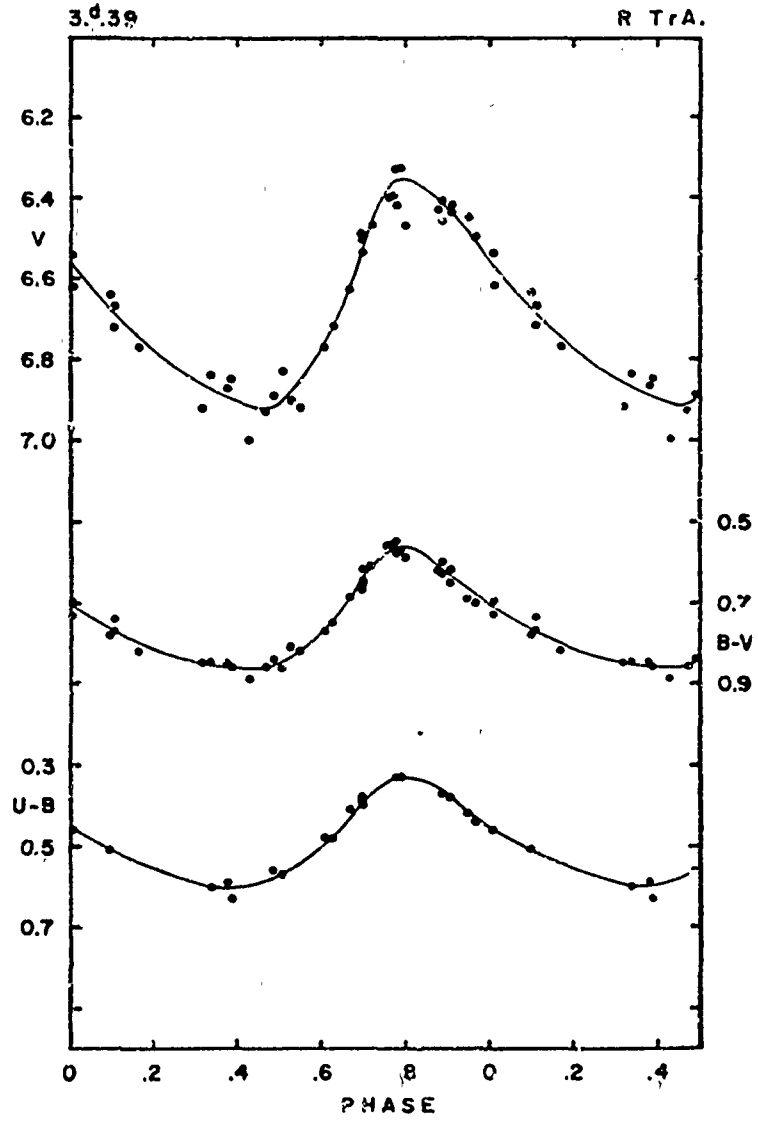
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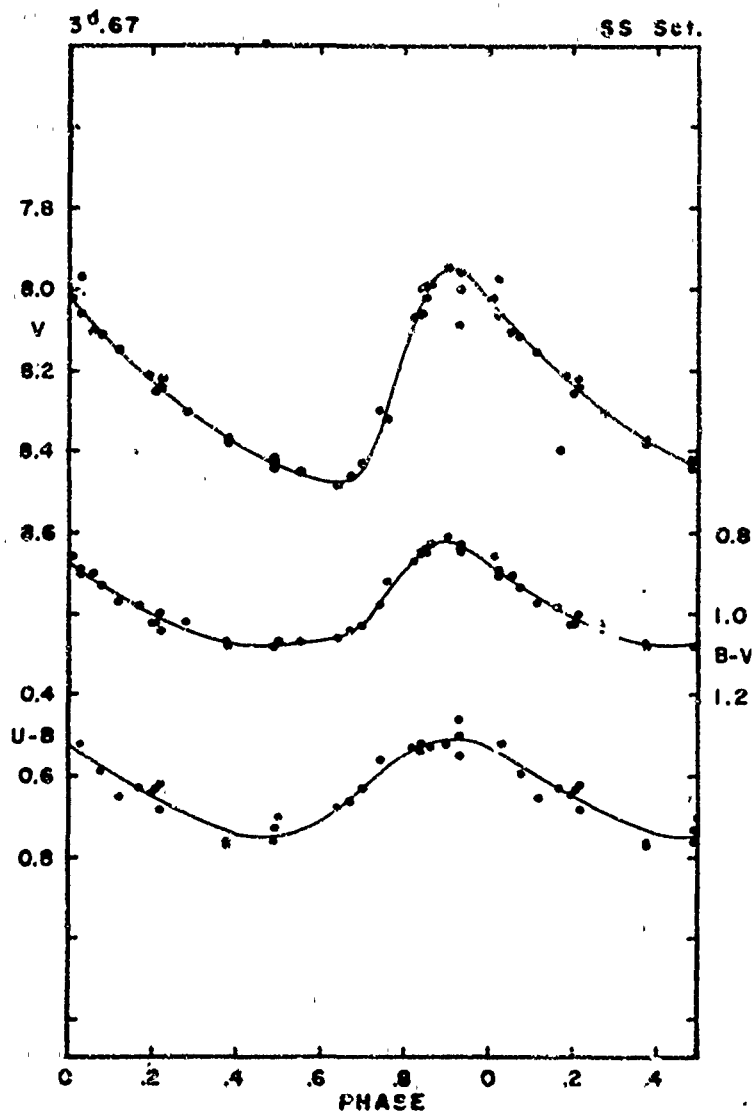
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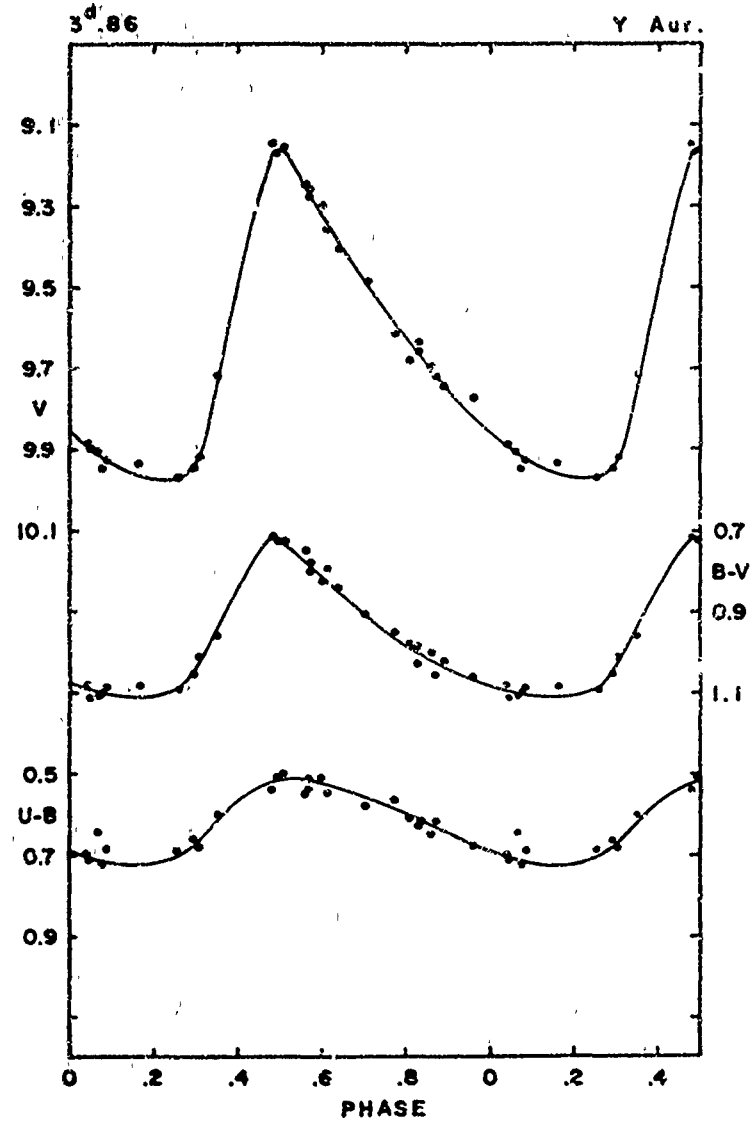
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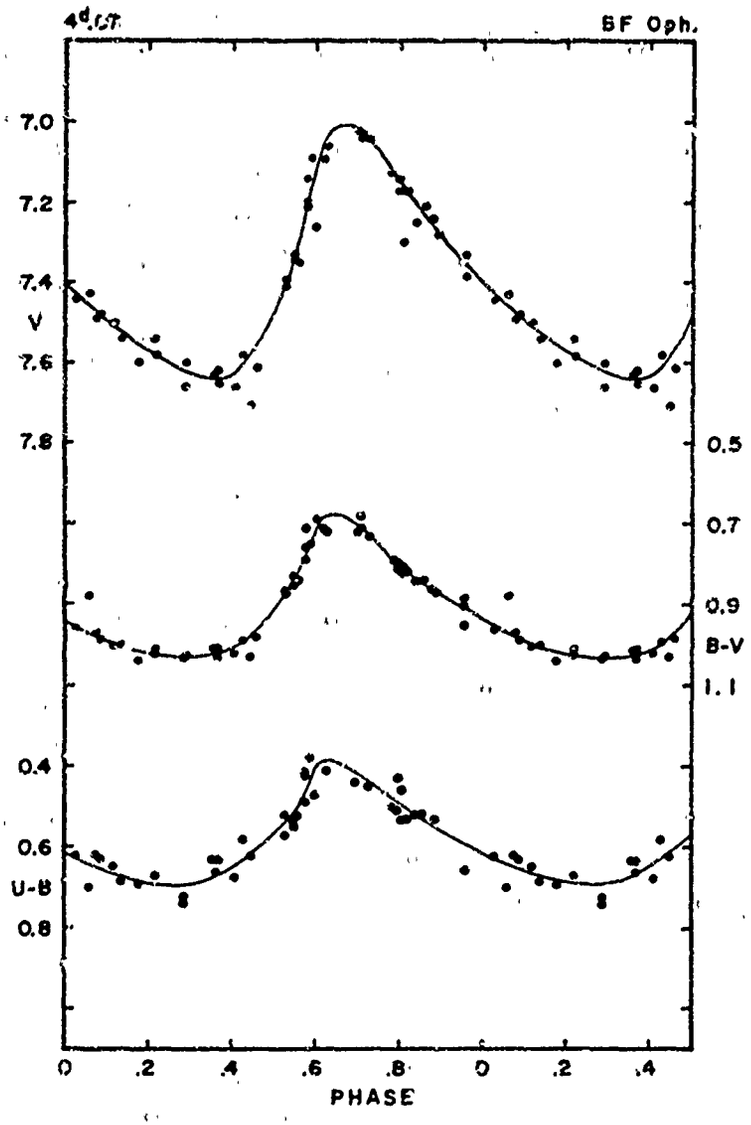
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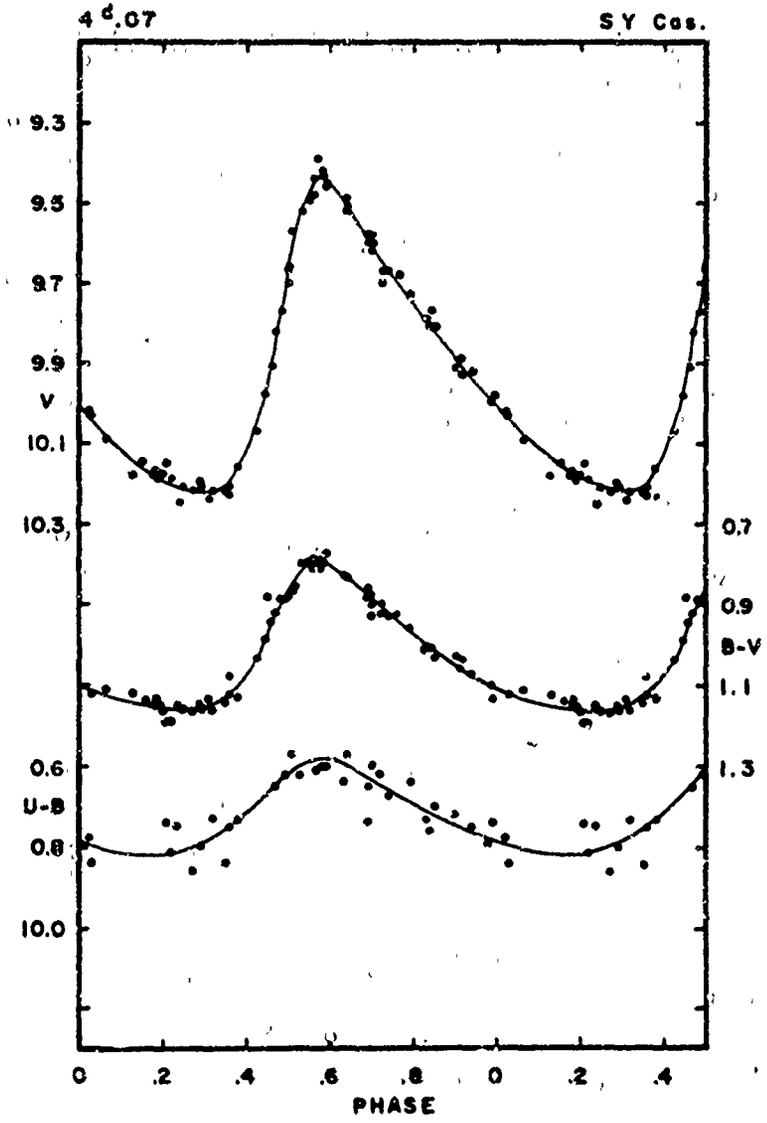
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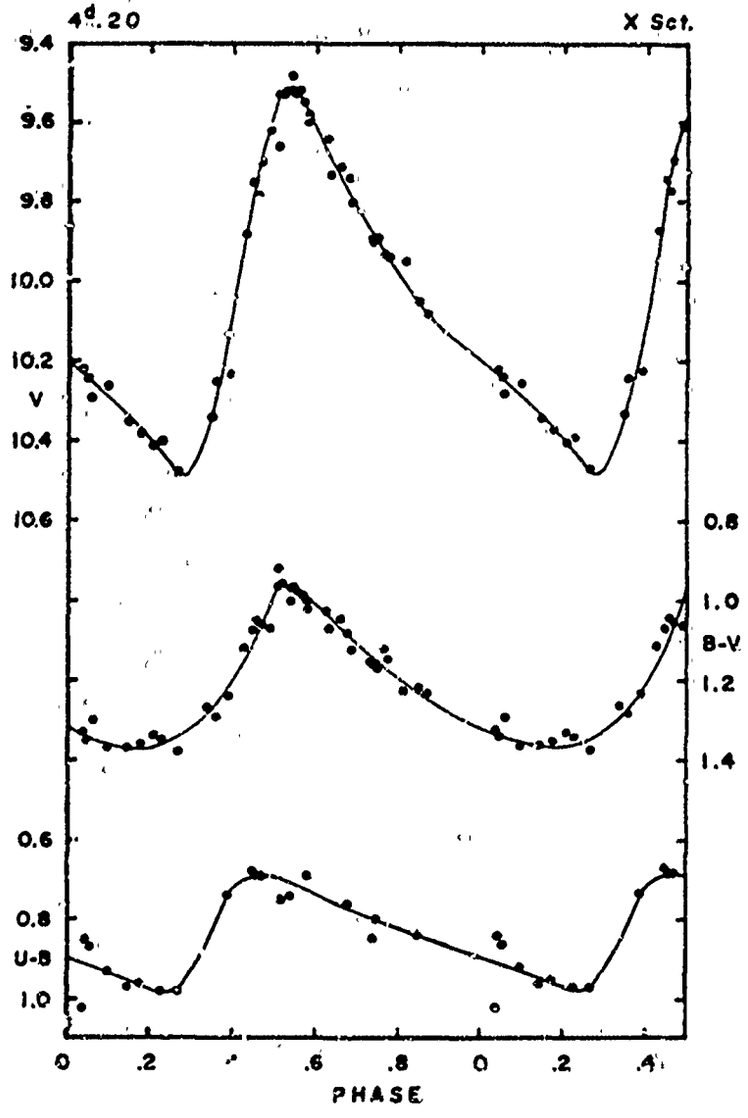
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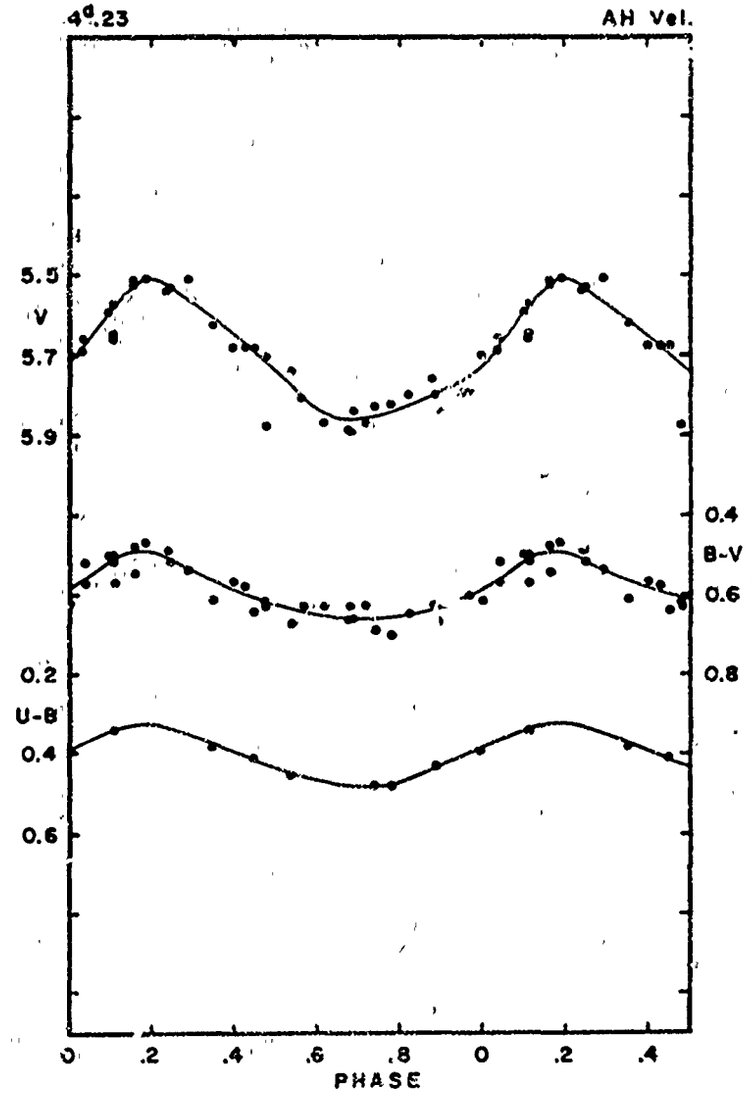
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AH Vel.
5.5
V
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B-V
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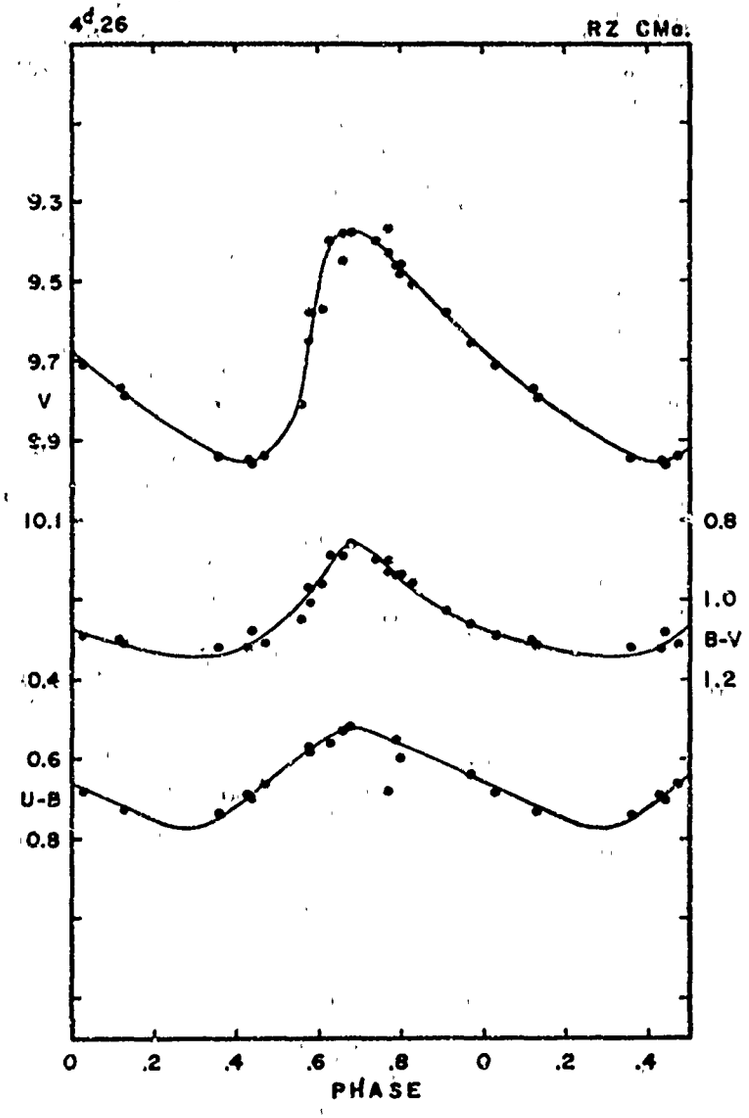
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RZ CMa.
9.3
9.5
9.7
V
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10.1
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B-V
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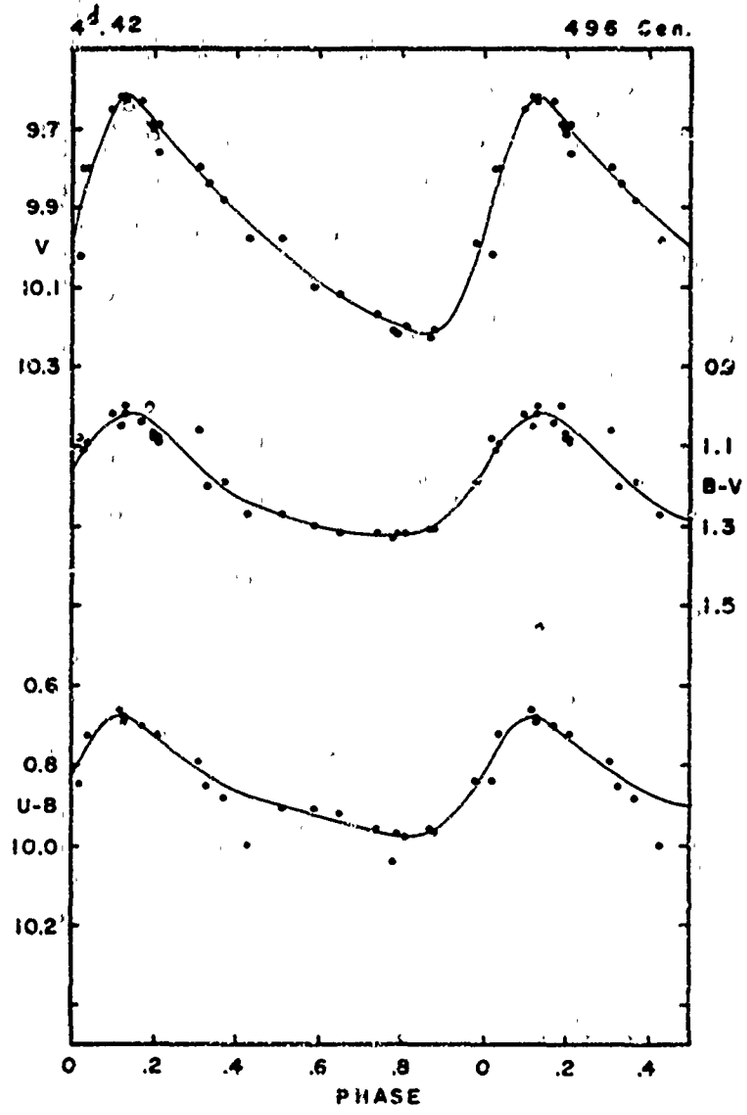
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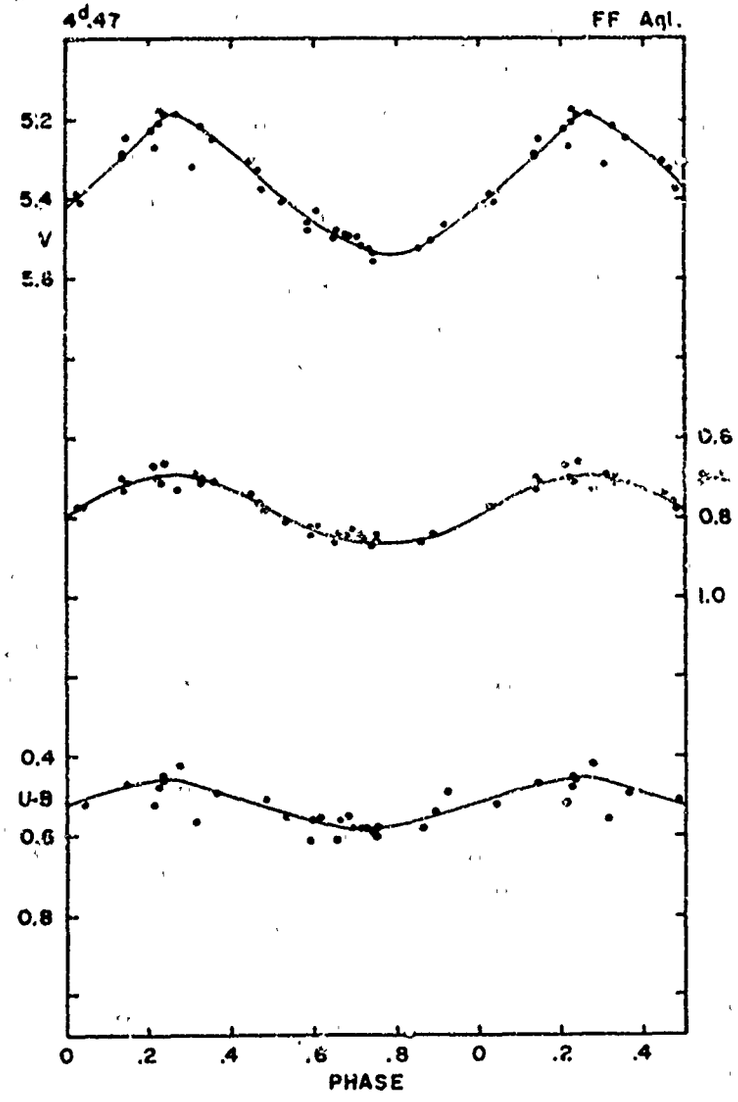
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FF Aql.
5.2
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B-V
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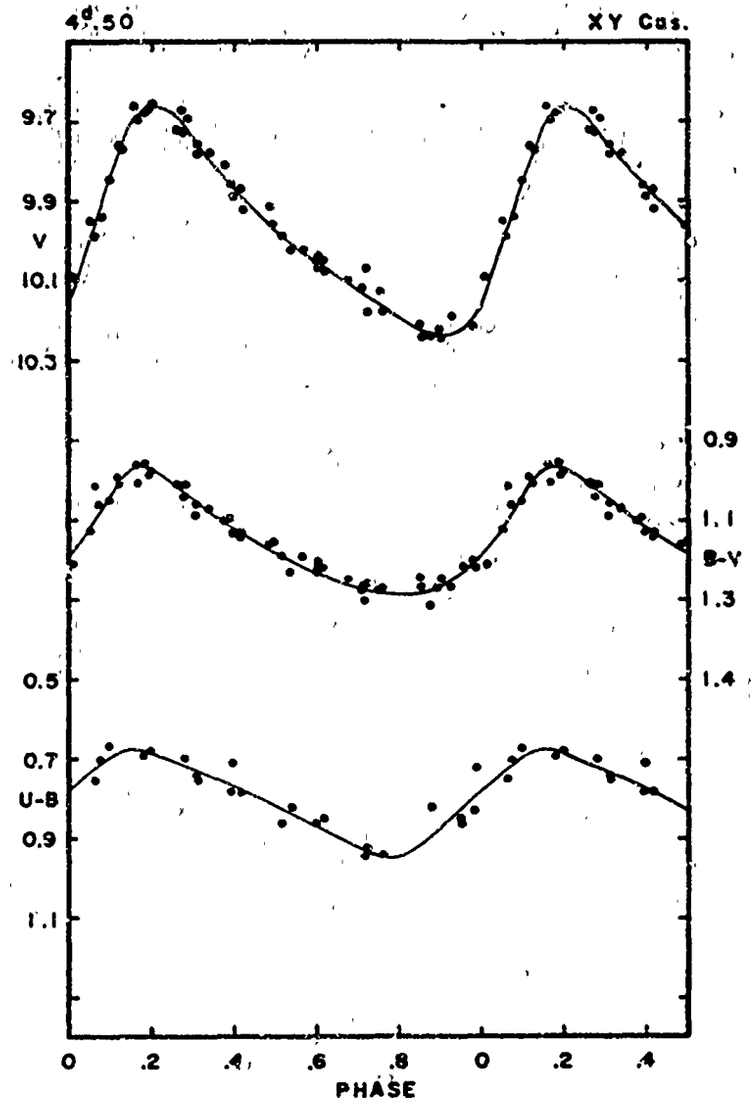
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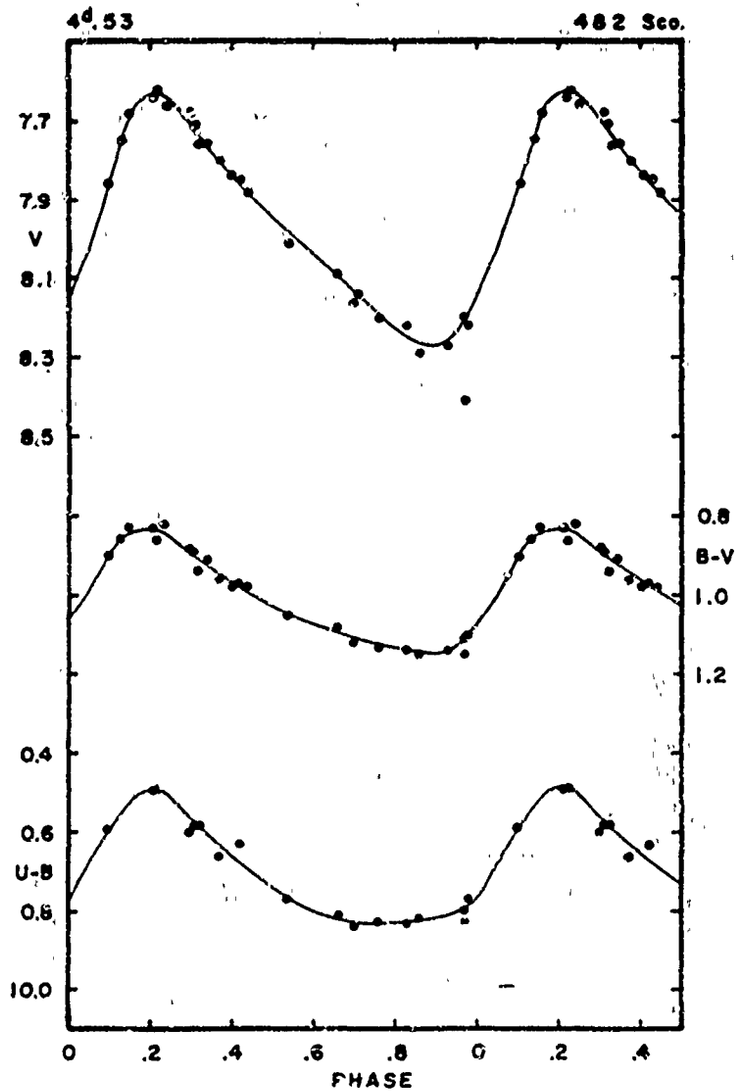
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482 Sco.
7.7
7.9
V
8.1
8.3
8.5
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1.2
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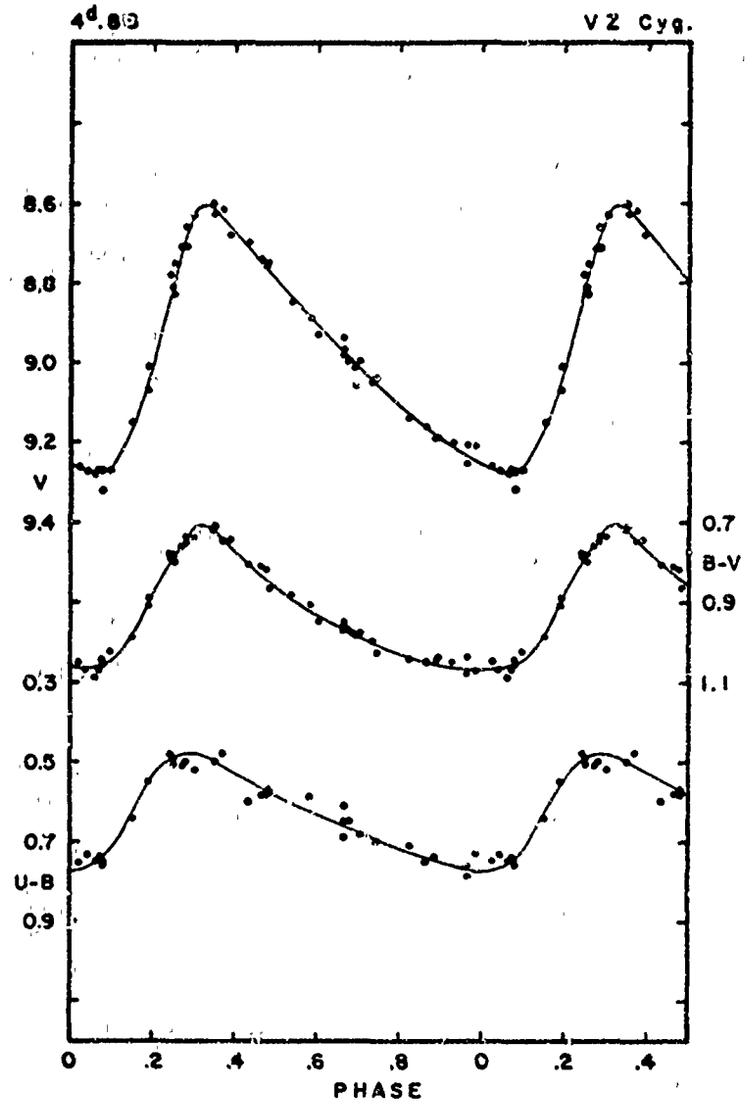
4d.86
V Z Cyg.
8.6
8.8
9.0
9.2
V
9.4
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B-V
0.9
1.1
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U-B
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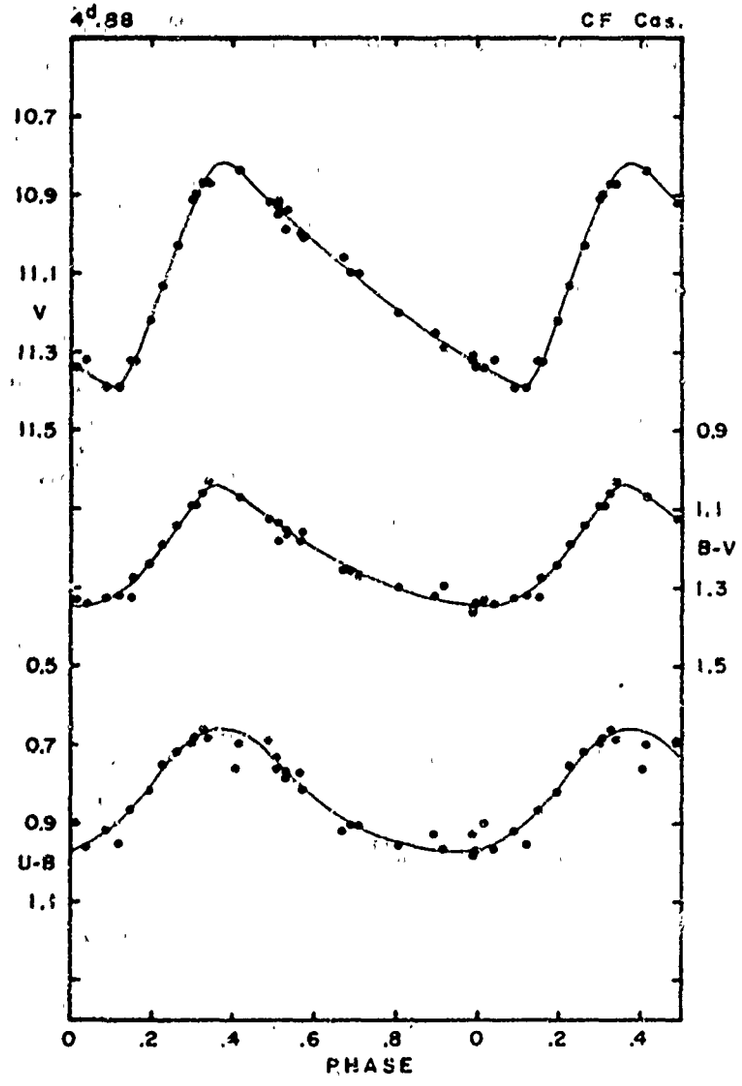
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CF Cas.
10.7
10.9
11.1
V
11.3
11.5
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1.1
B-V
1.3
1.5
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U-B
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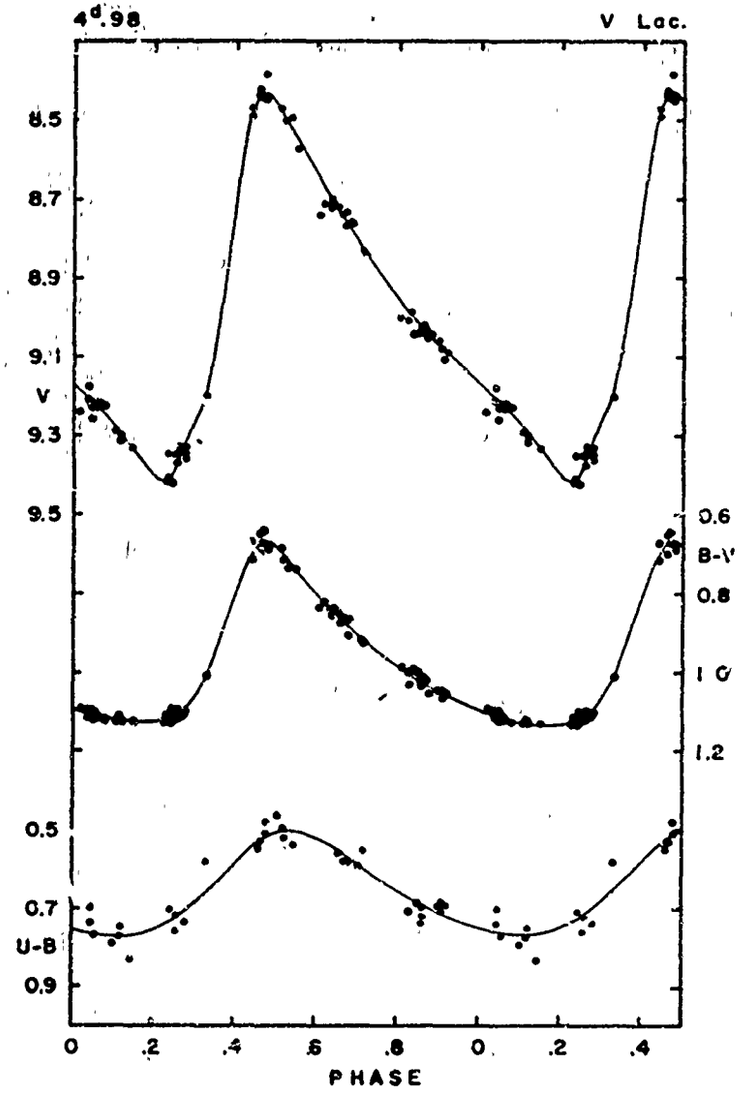
PHASE


4d.98
V Lac.
8.5
8.7
8.9
9.1
V
9.3
9.5
0.6
B-V
0.8
1.0
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0.7
U-B
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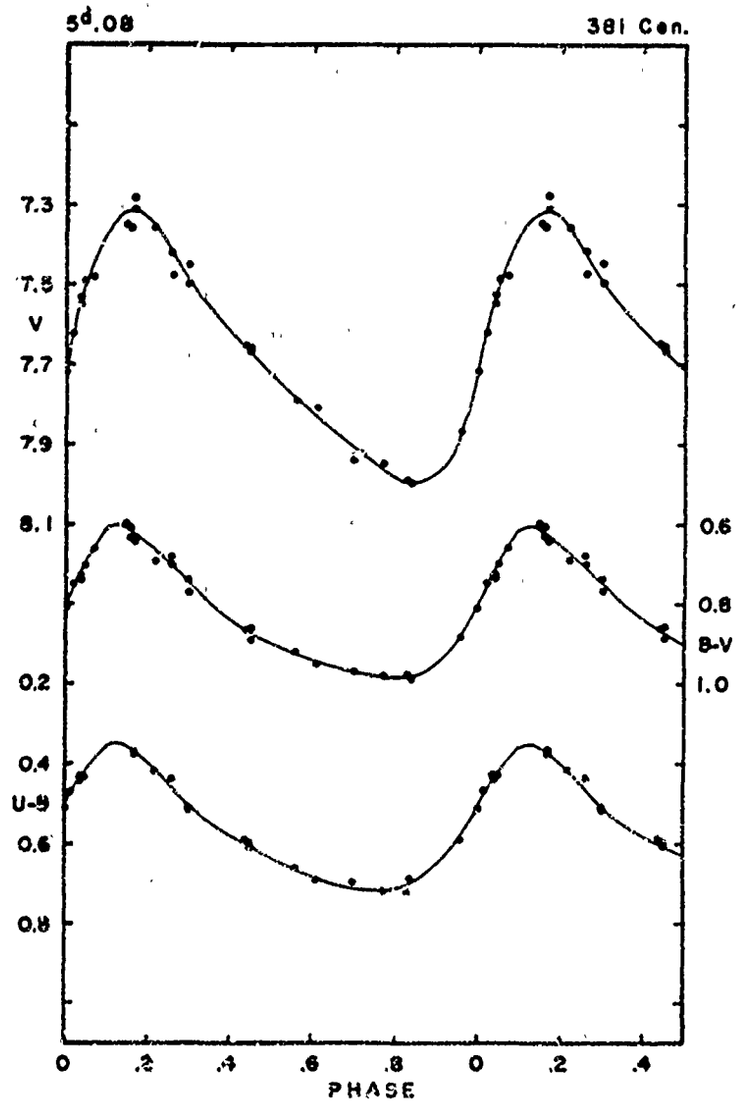
PHASE


5d.08
381 Cen.
7.3
7.5
V
7.7
7.9
8.1
0.6
0.8
B-V
1.0
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U-B
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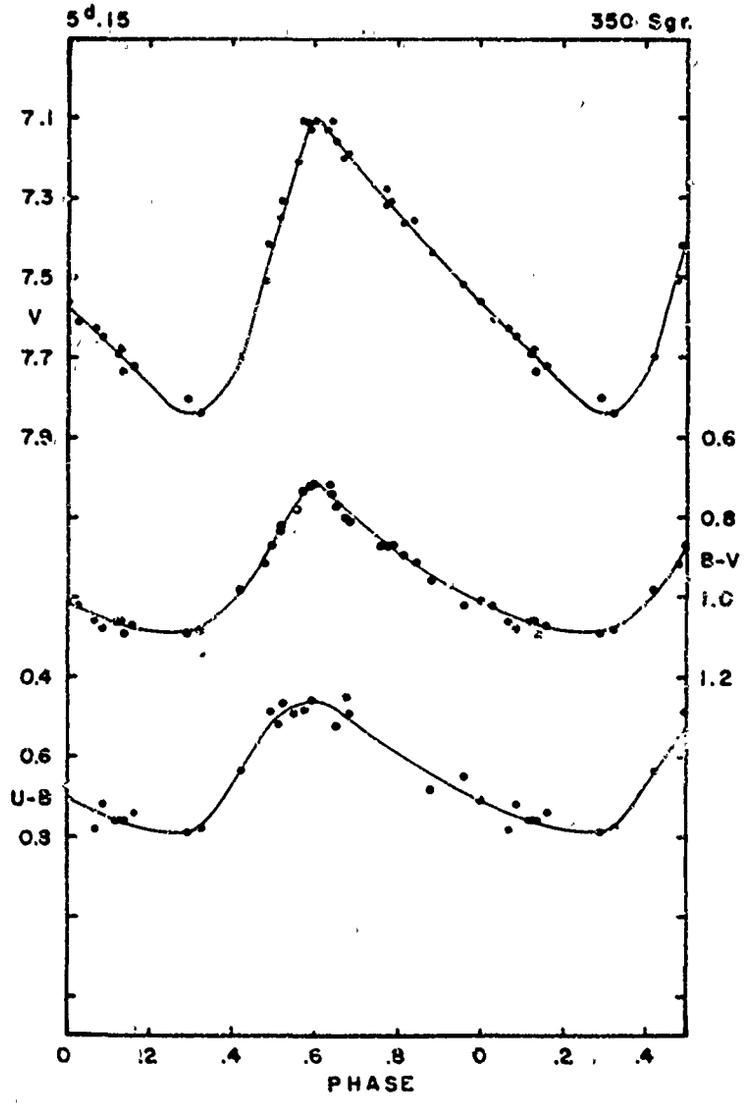
PHASE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7.1
7.3
7.5
V
7.7
7.9
0.6
0.8
B-V
1.0
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0.6
U-B
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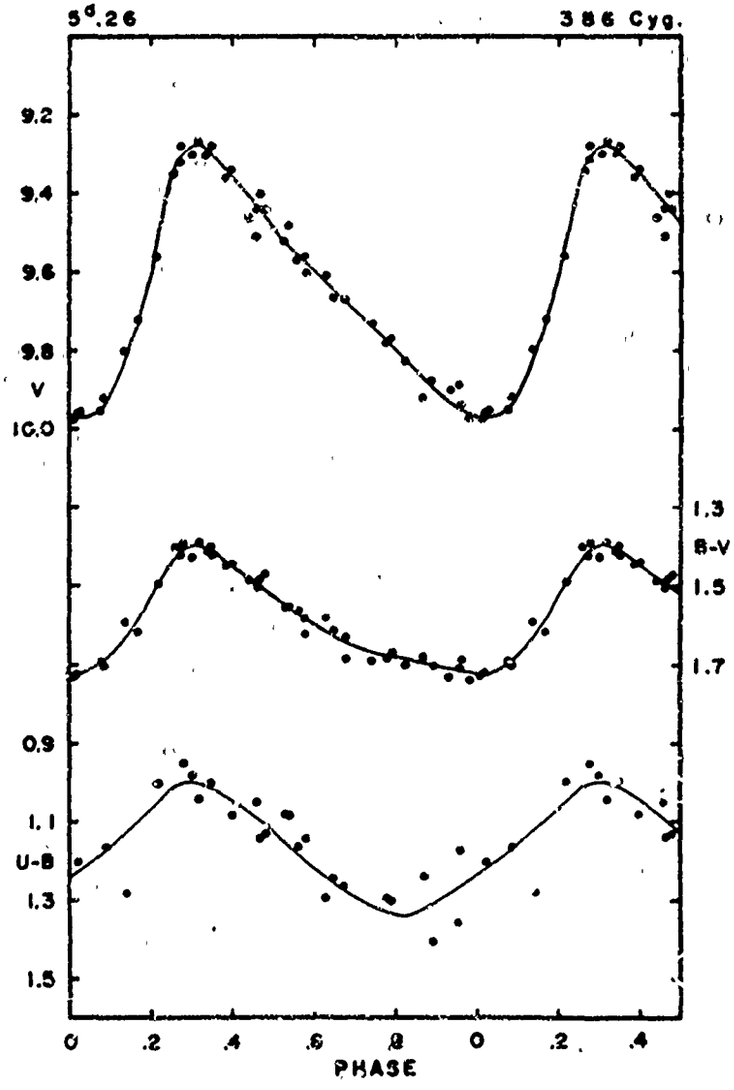
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3 8 6 Cyg.
9.2
9.4
9.6
9.8
V
10.0
1.3
B-V
1.5
1.7
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1.1
U-B
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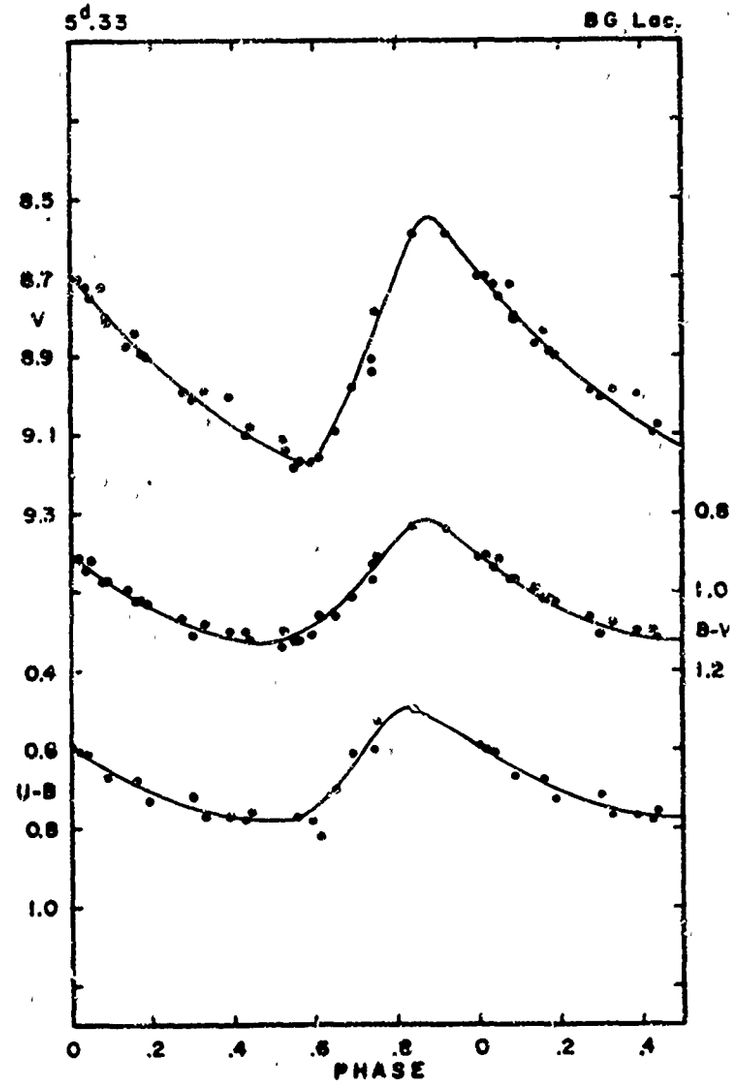
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BG Lac.
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8.7
V
8.9
9.1
9.3
0.8
1.0
B-V
1.2
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U-B
0.8
1.0
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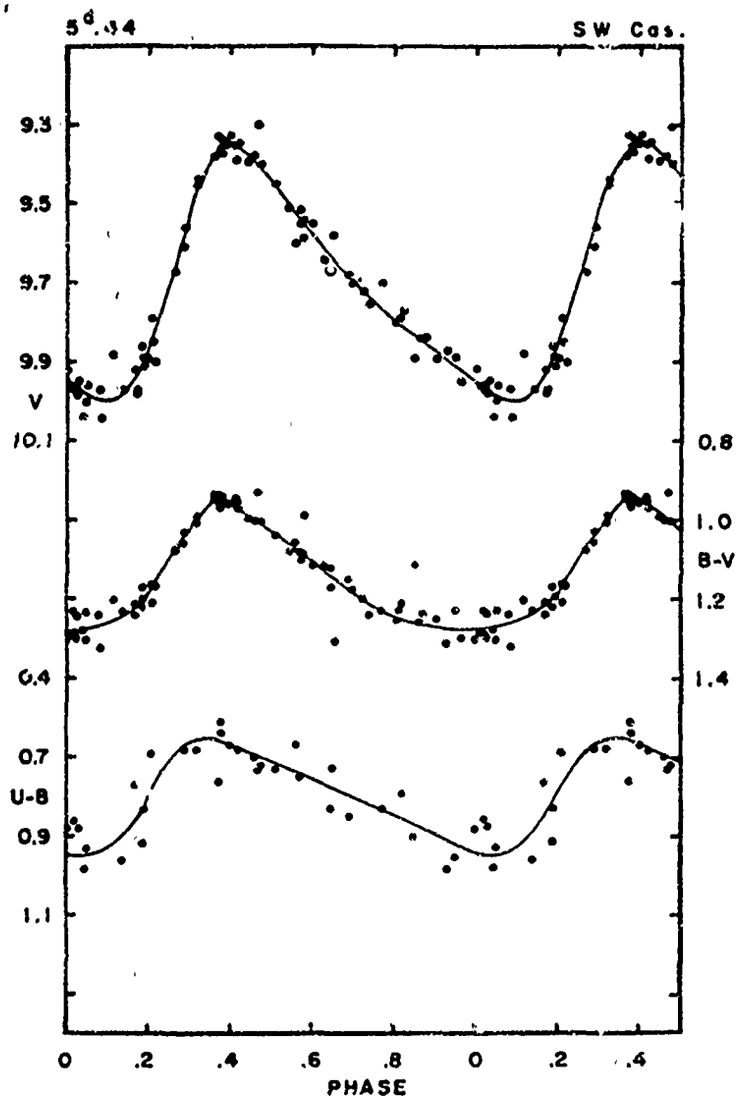
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SW Cas.
9.3
9.5
9.7
9.9
V
10.1
0.8
1.0
B-V
1.2
1.4
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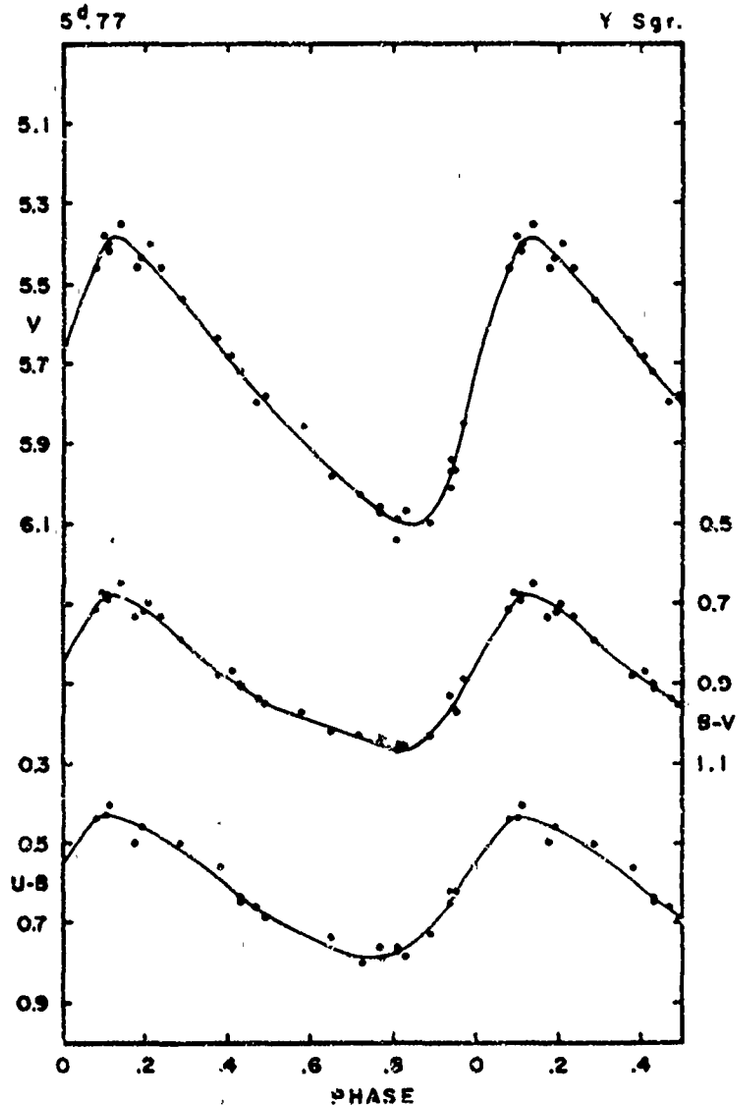
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Y Sgr.
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5.5
V
5.7
5.9
6.1
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0.7
0.9
B-V
1.1
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U-B
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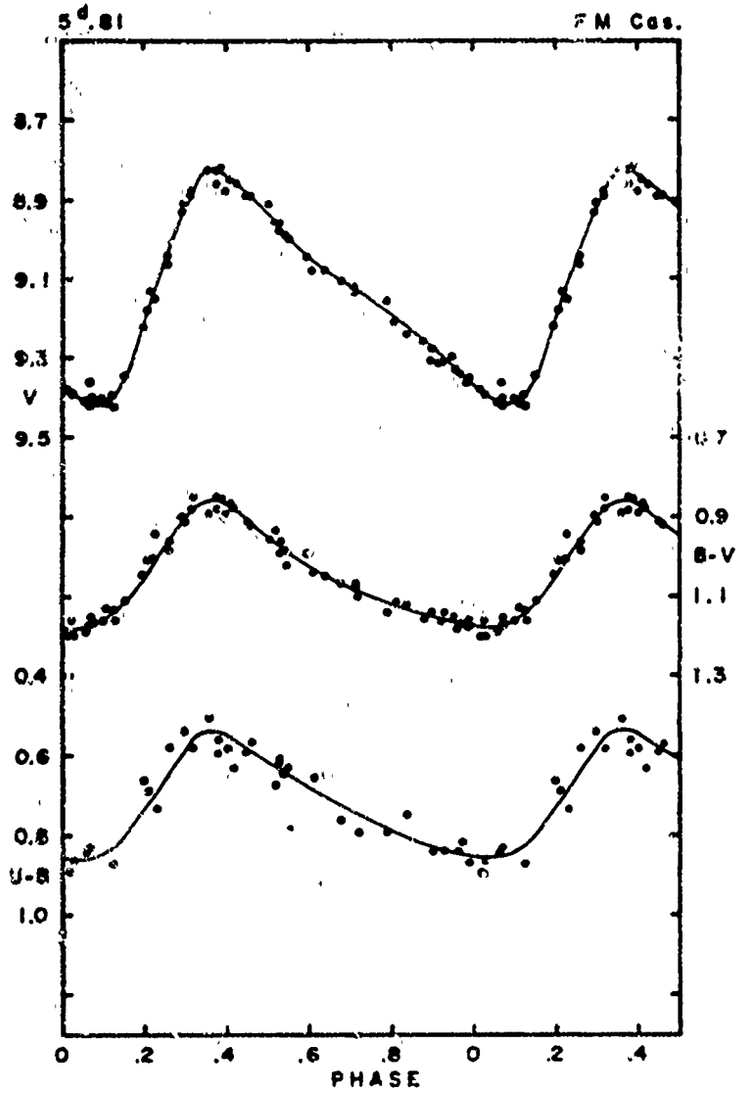
PHASE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FM Cas.
8.7
8.9
9.1
9.3
V
9.5
0.7
0.9
B-V
1.1
1.3
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U-B
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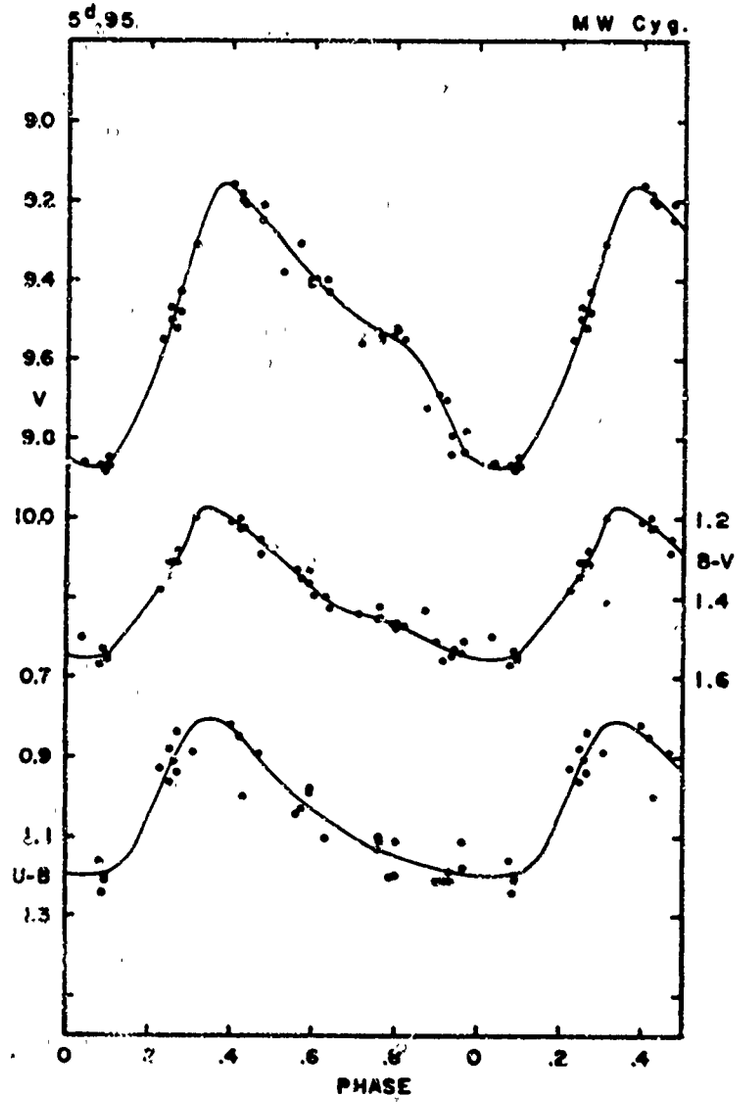
PHASE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MW Cyg.
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9.4
9.6
V
9.8
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B-V
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1.6
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U-B
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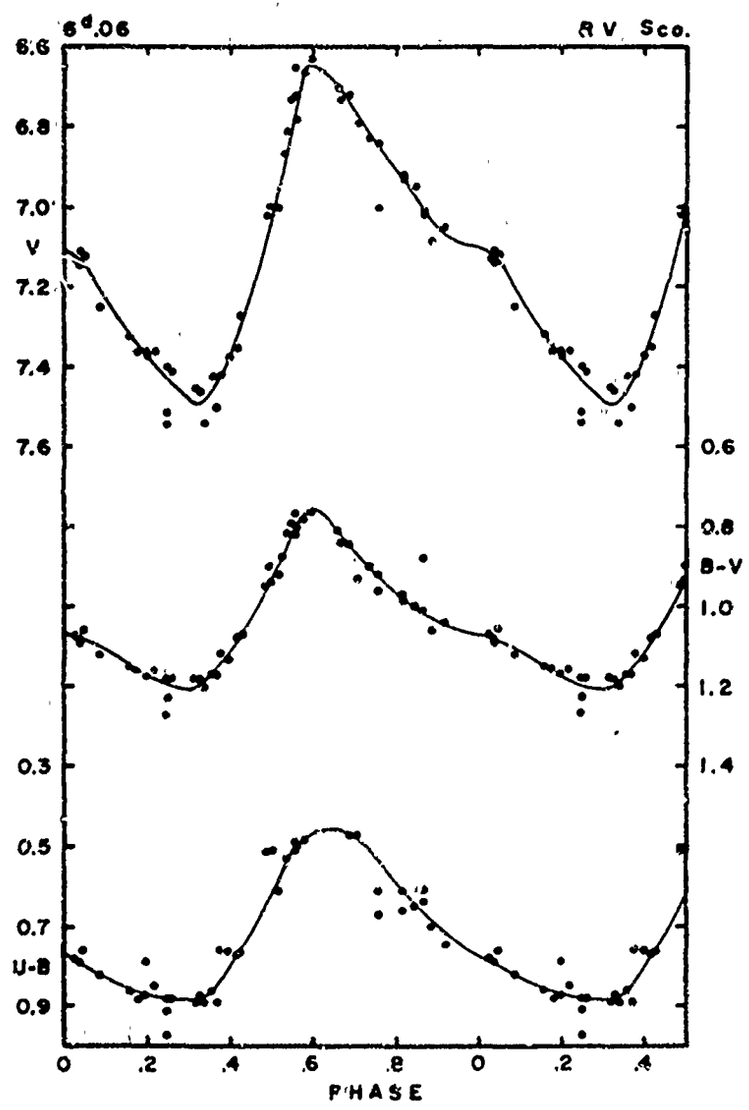
PHASE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RV Sco.
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V
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7.4
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B-V
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1.4
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0.7
U-B
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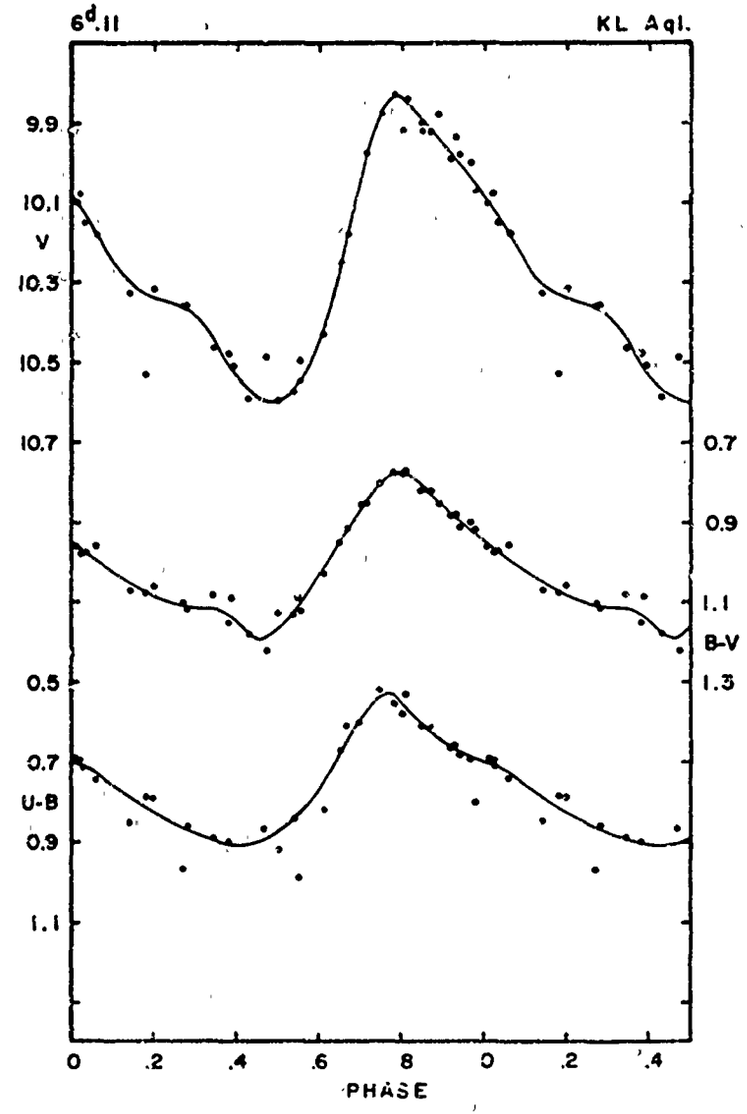
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KL Aql.
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V
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10.5
10.7
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1.1
B-V
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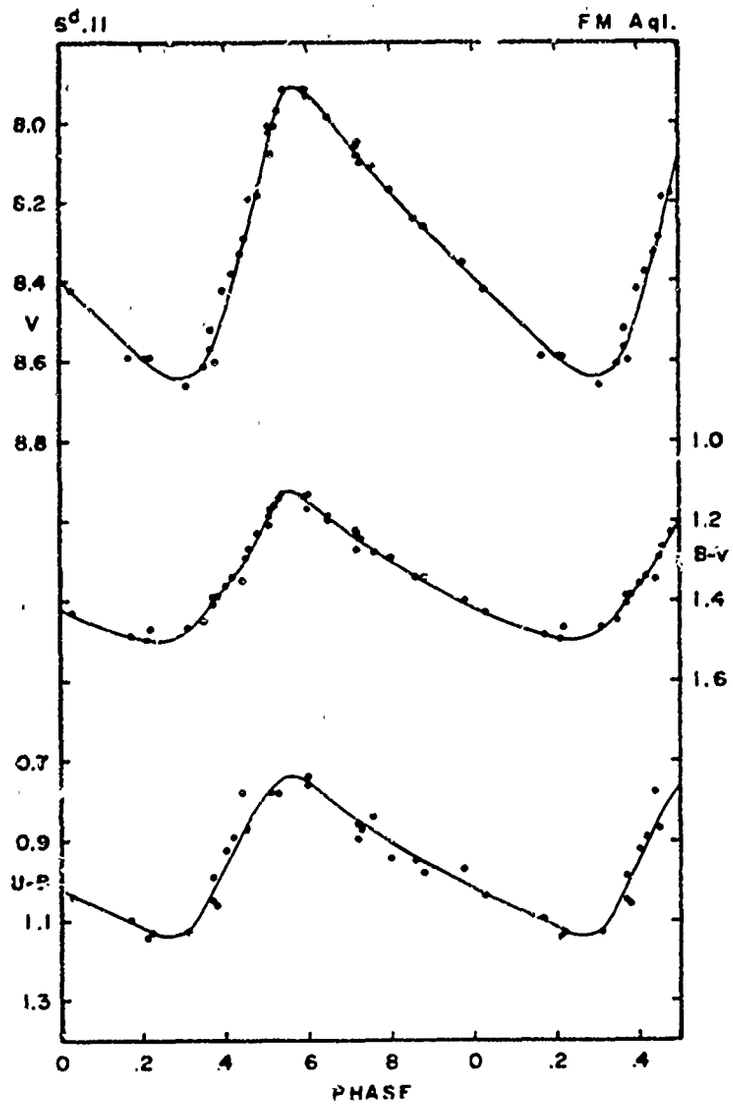
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FM Aql.
8.0
8.2
8.4
V
8.6
8.8
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1.2
B-V
1.4
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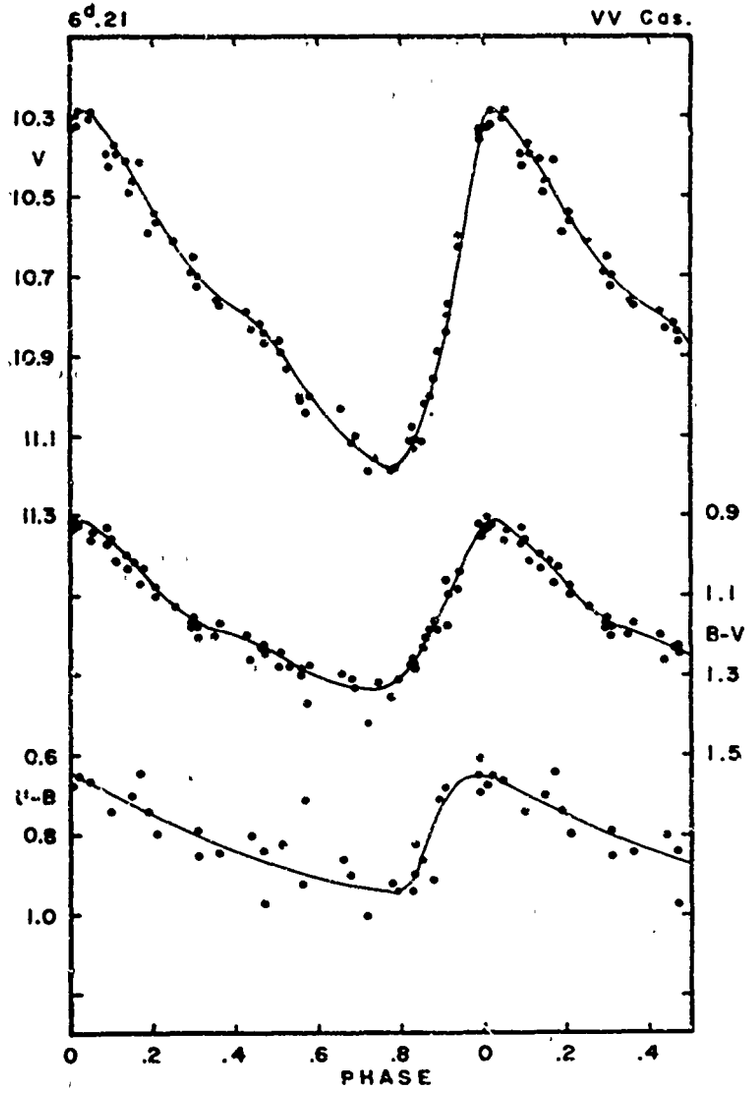
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VV Cas.
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V
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11.1
11.3
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B-V
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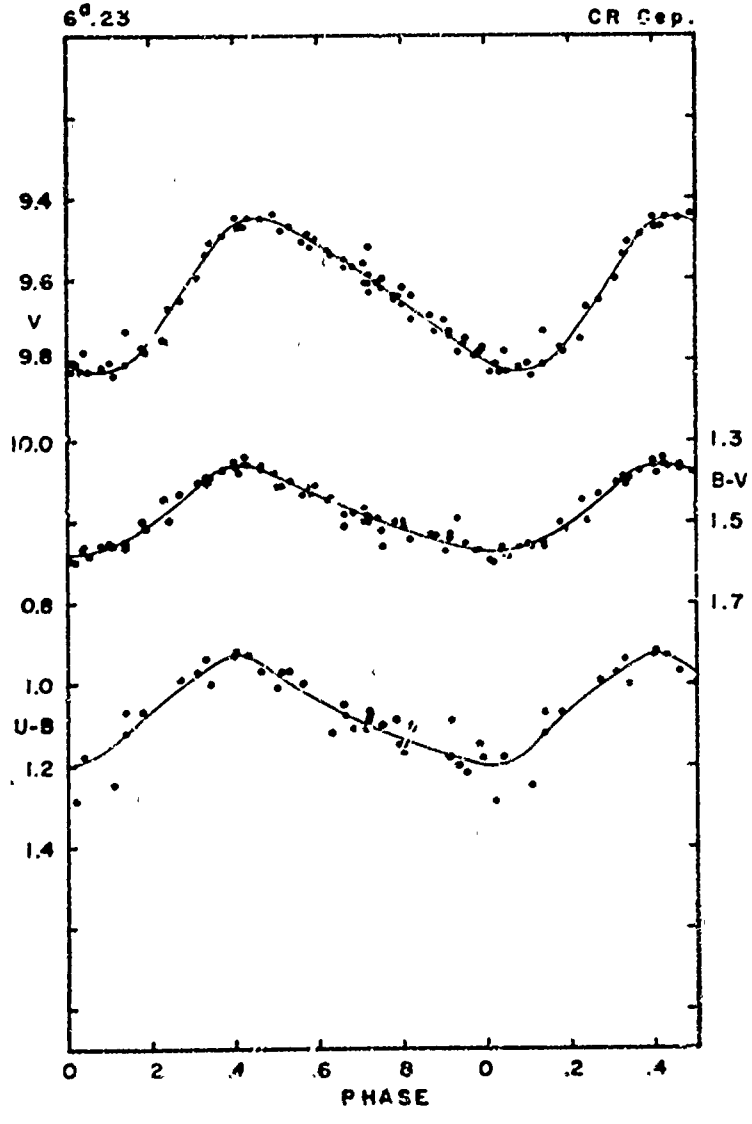
PHASE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CR Cep.
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V
9.8
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1.3
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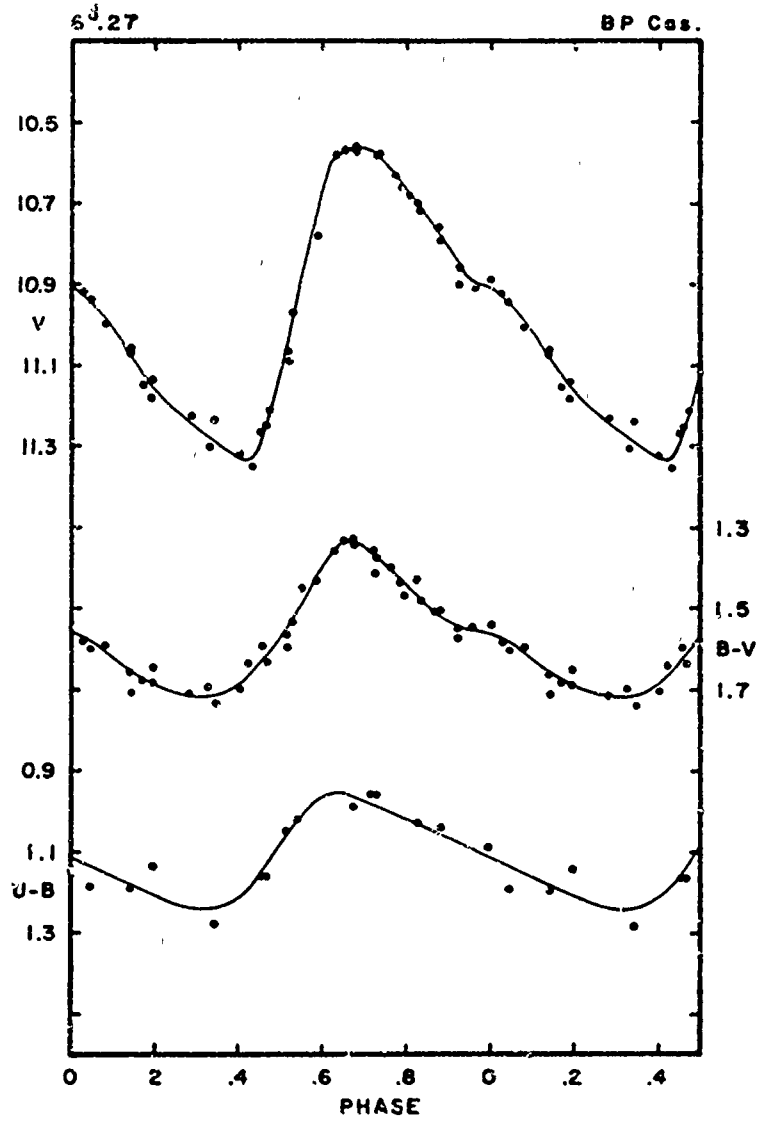
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BP Cas.
10.5
10.7
10.9
V
11.1
11.3
1.3
1.5
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U-B
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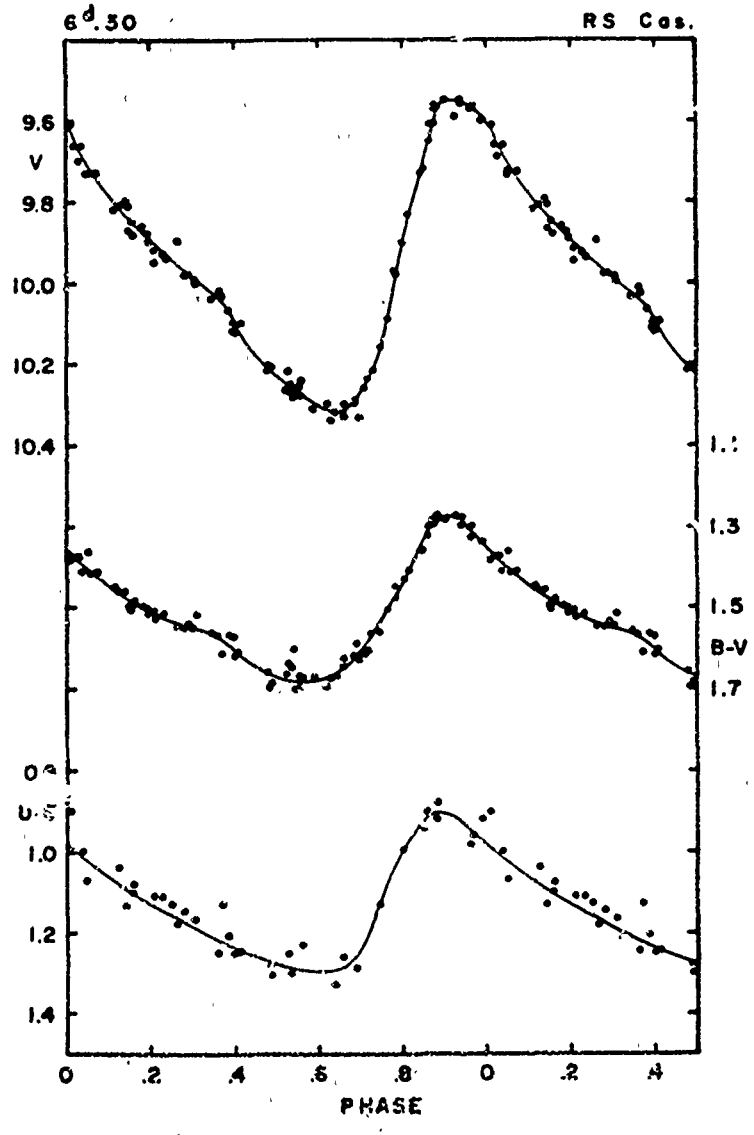
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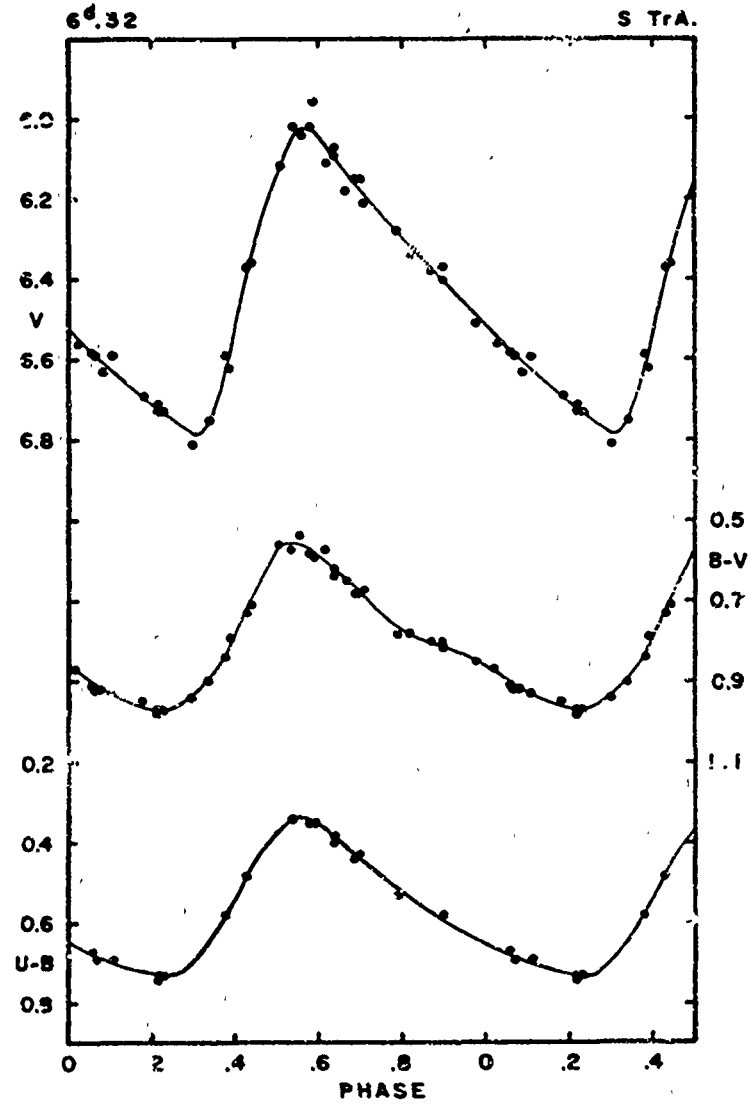
PHASE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S TrA.
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V
6.6
6.8
0.5
B-V
0.7
0.9
1.1
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U-B
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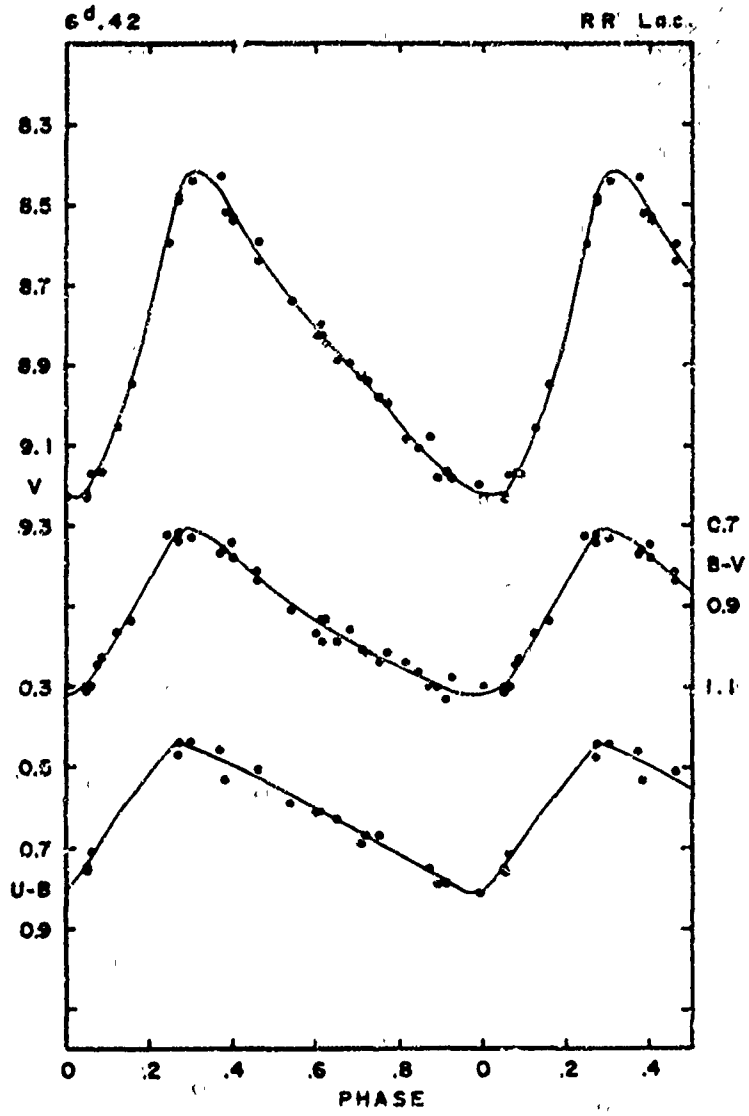
PHASE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RR Lac.
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8.5
8.7
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V
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U-B
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B-V
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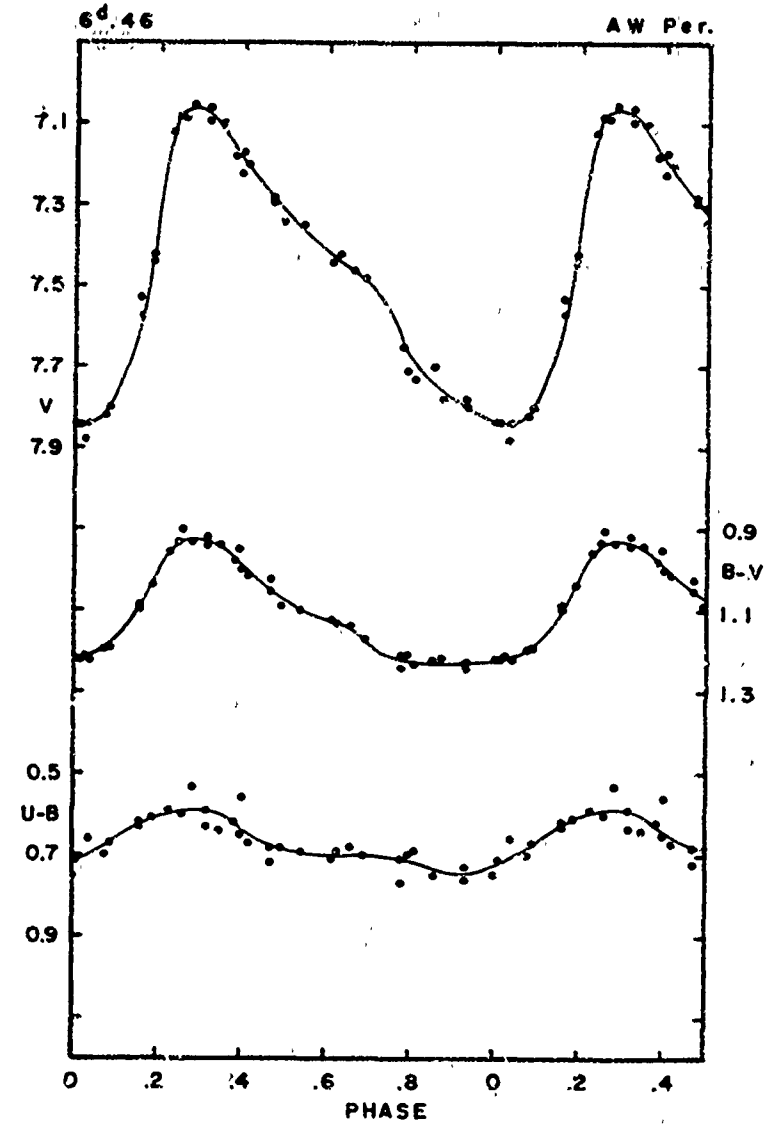
PHASE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AW Per.
7.1
7.3
7.5
7.7
V
7.9
0.9
B-V
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U-B
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0.9
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.6
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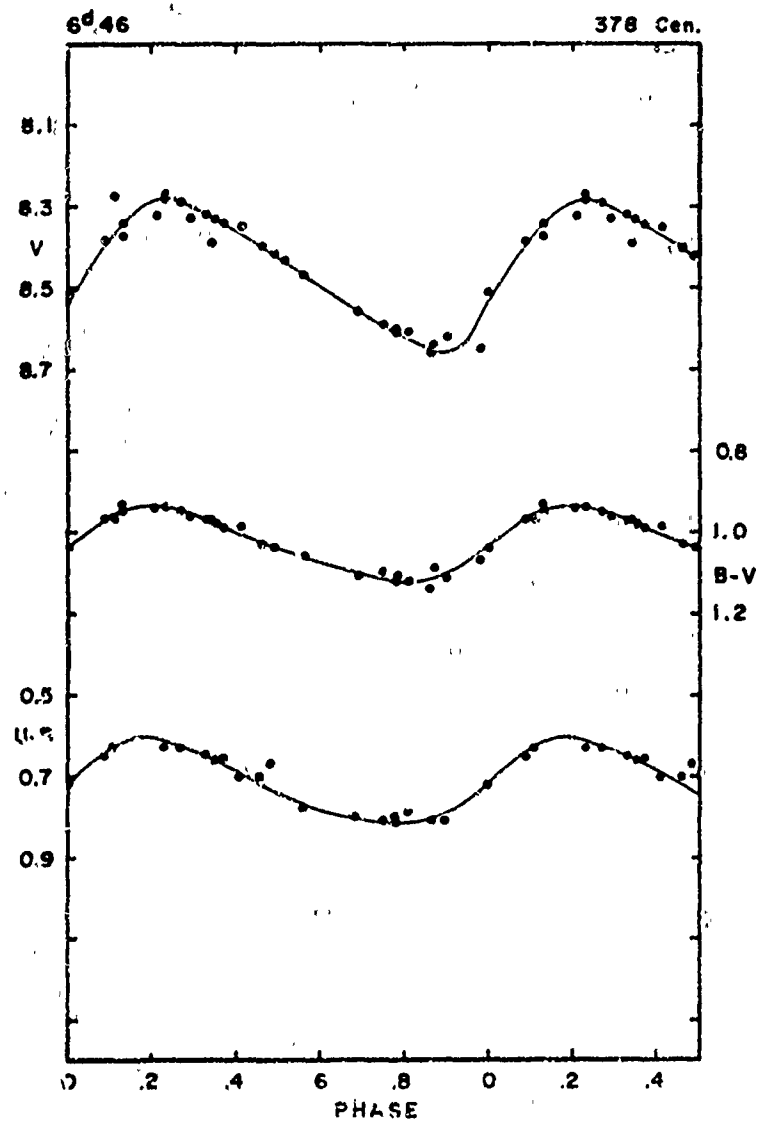
PHASE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378 Cen.
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8.3
V
8.5
8.7
0.8
1.0
B-V
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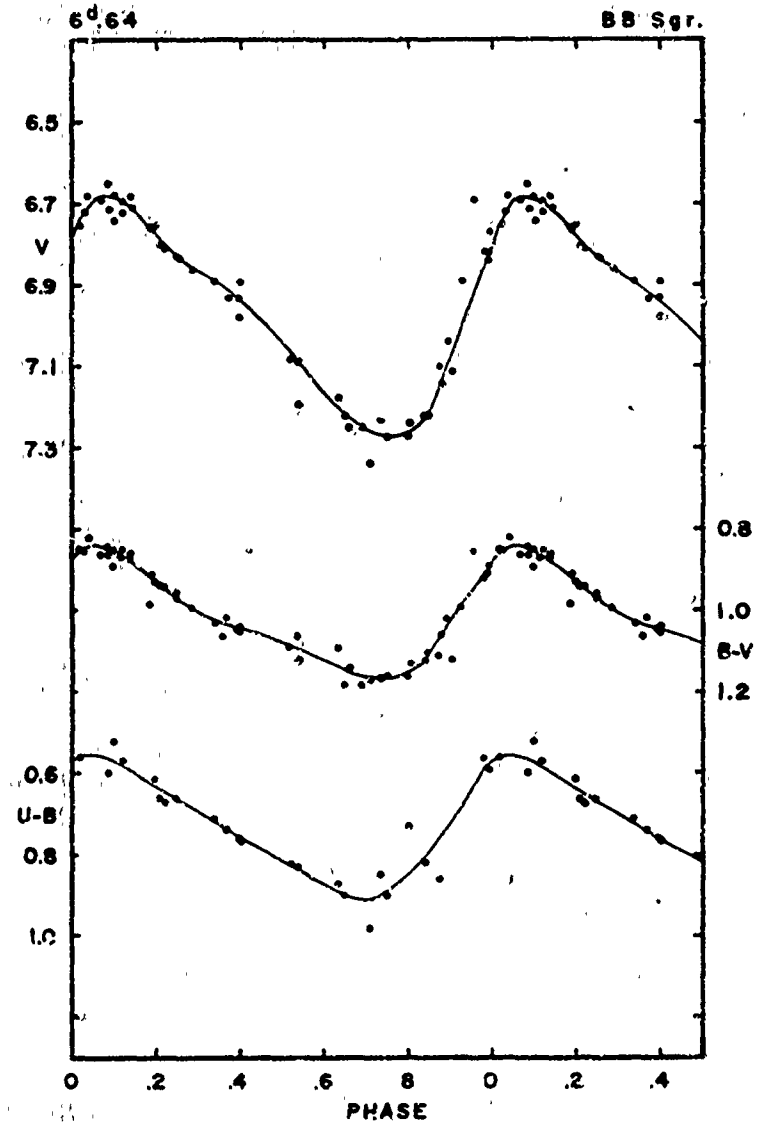
PHASE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BB Sgr.
6.5
6.7
V
6.9
7.1
7.3
0.8
1.0
B-V
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U-B
0.8
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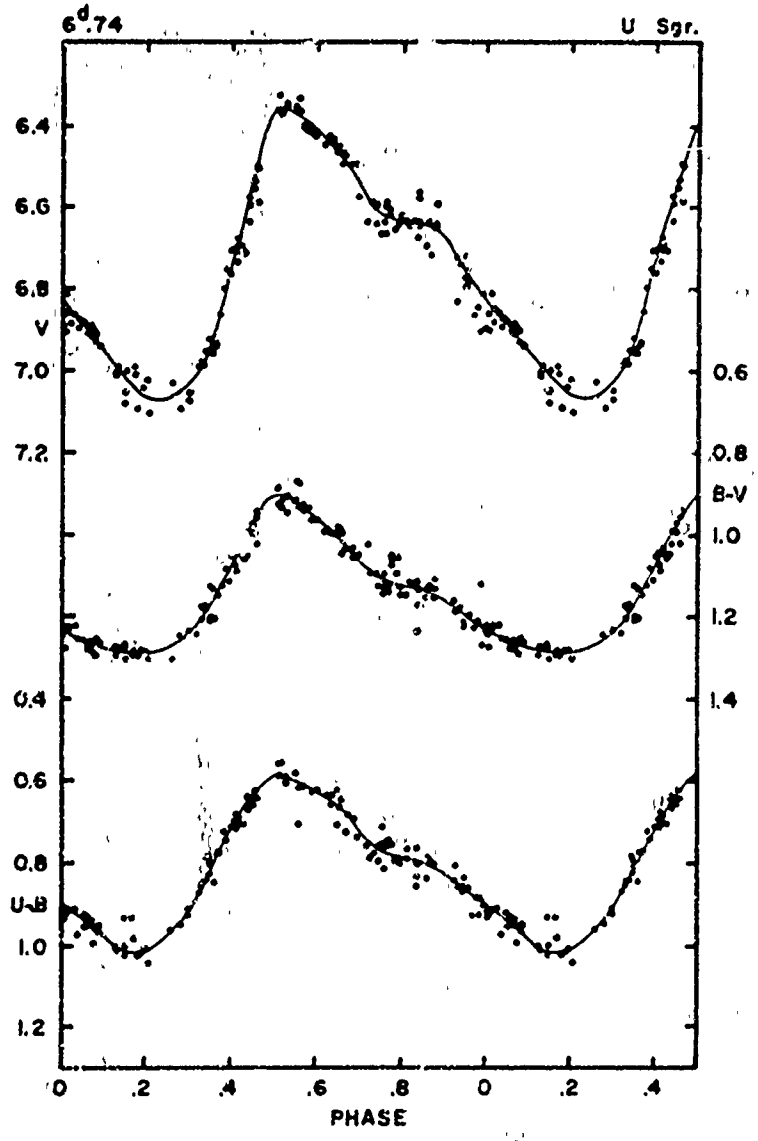
PHASE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U Sgr.
6.4
6.6
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V
7.0
7.2
0.6
0.8
B-V
1.0
1.2
1.4
0.4
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U-B
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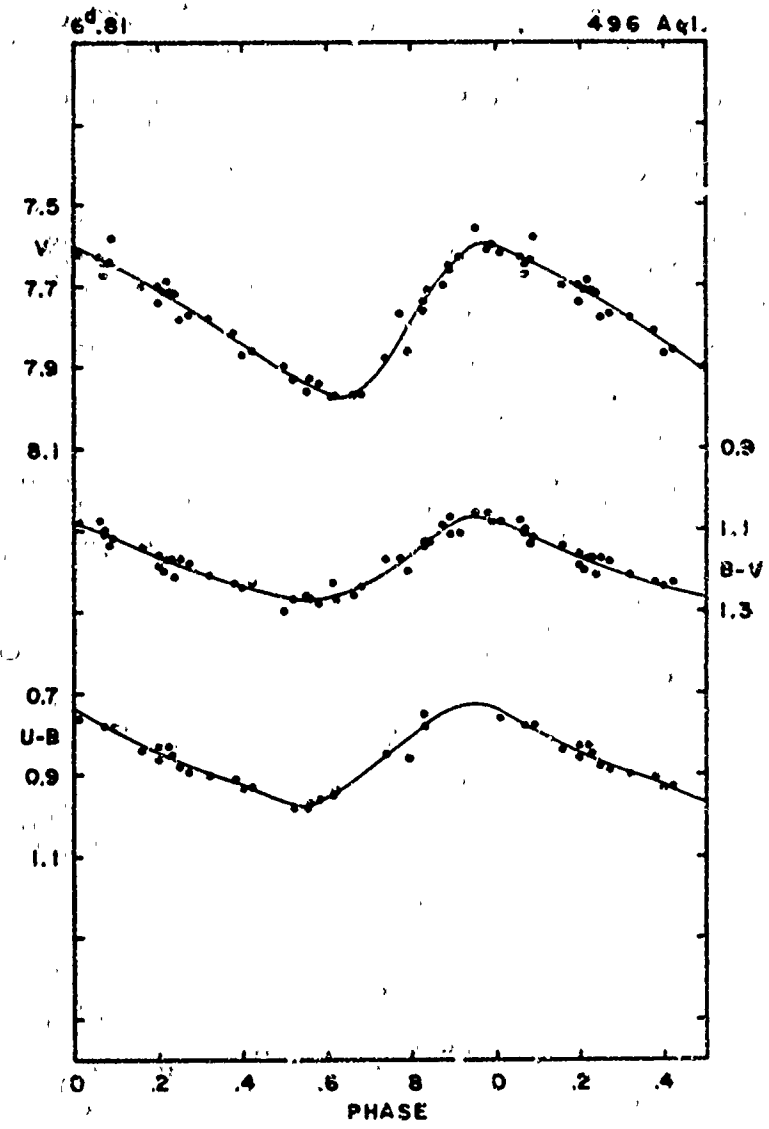
6d.81
496 Aql.
7.5
V
7.7
7.9
8.1
0.9
1.1
B-V
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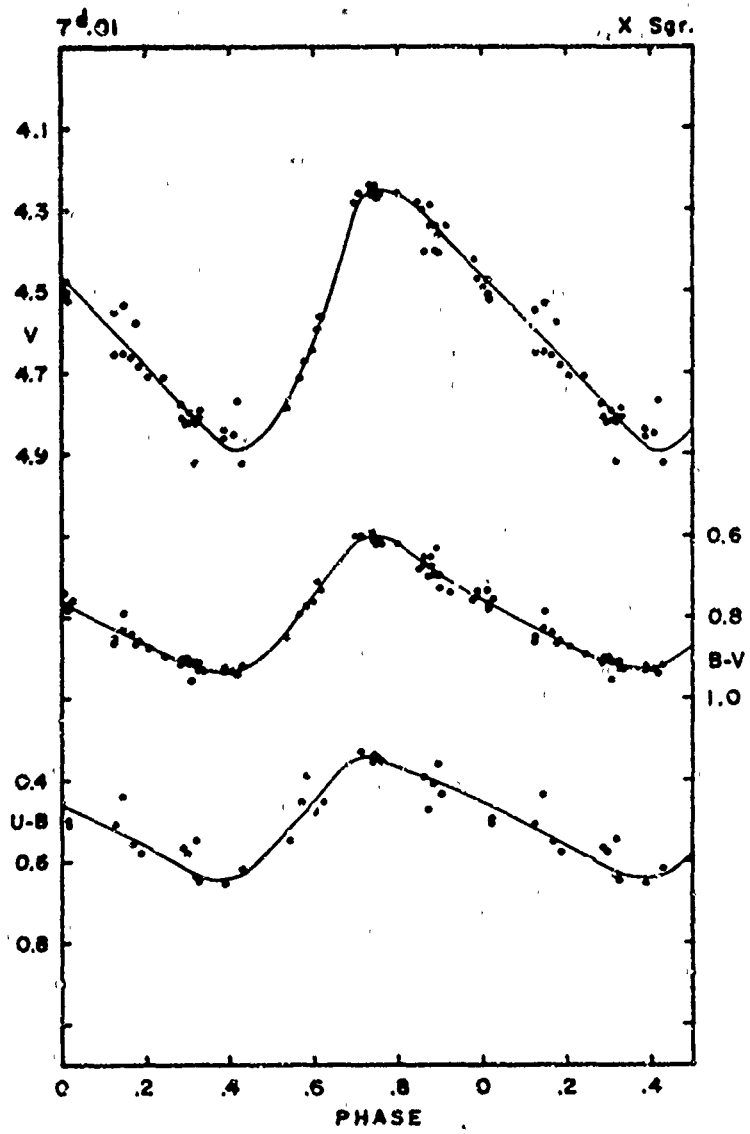
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X Sgr.
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V
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4.9
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0.8
B-V
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U-B
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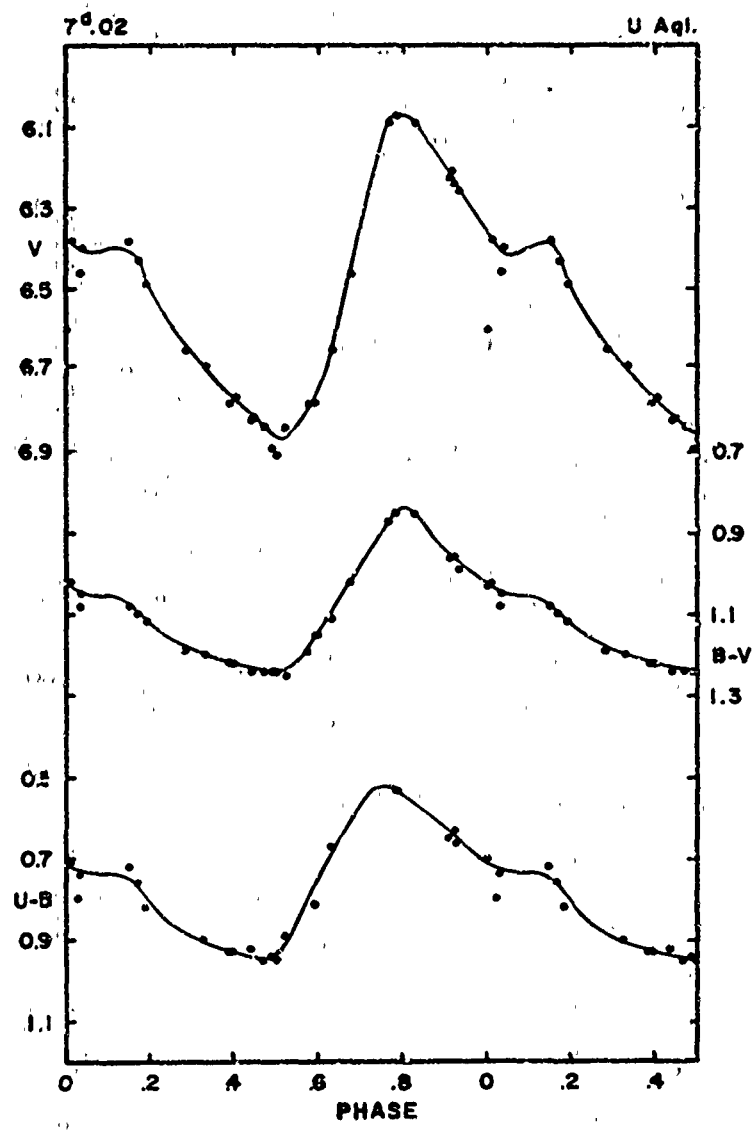
PHASE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6.9
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B-V
1.3
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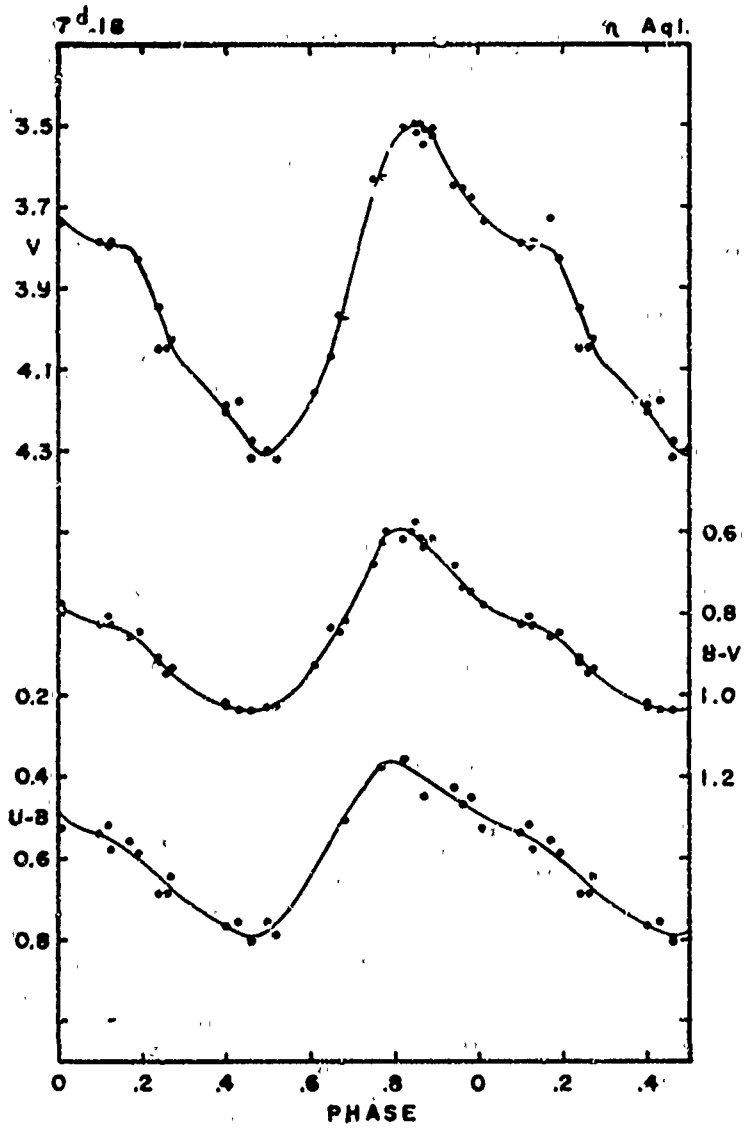
7d.18
η Aql.
3.5
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V
3.9
4.1
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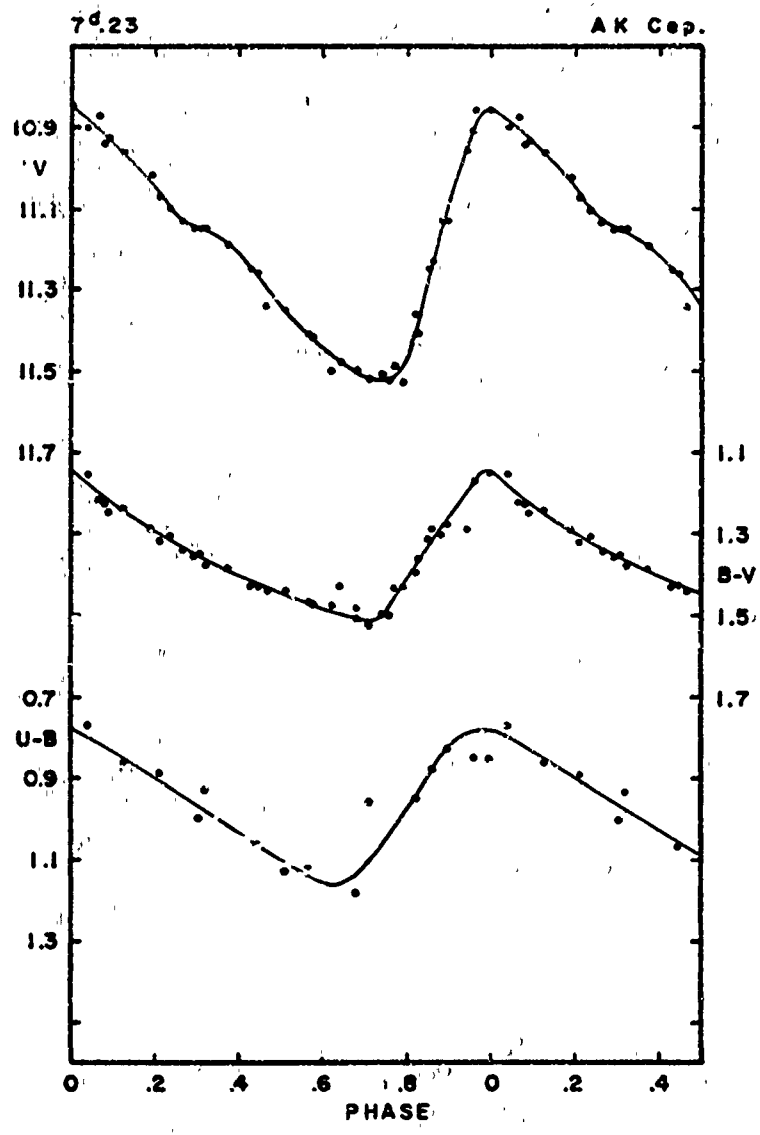
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AK Cep.
10.9
V
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11.7
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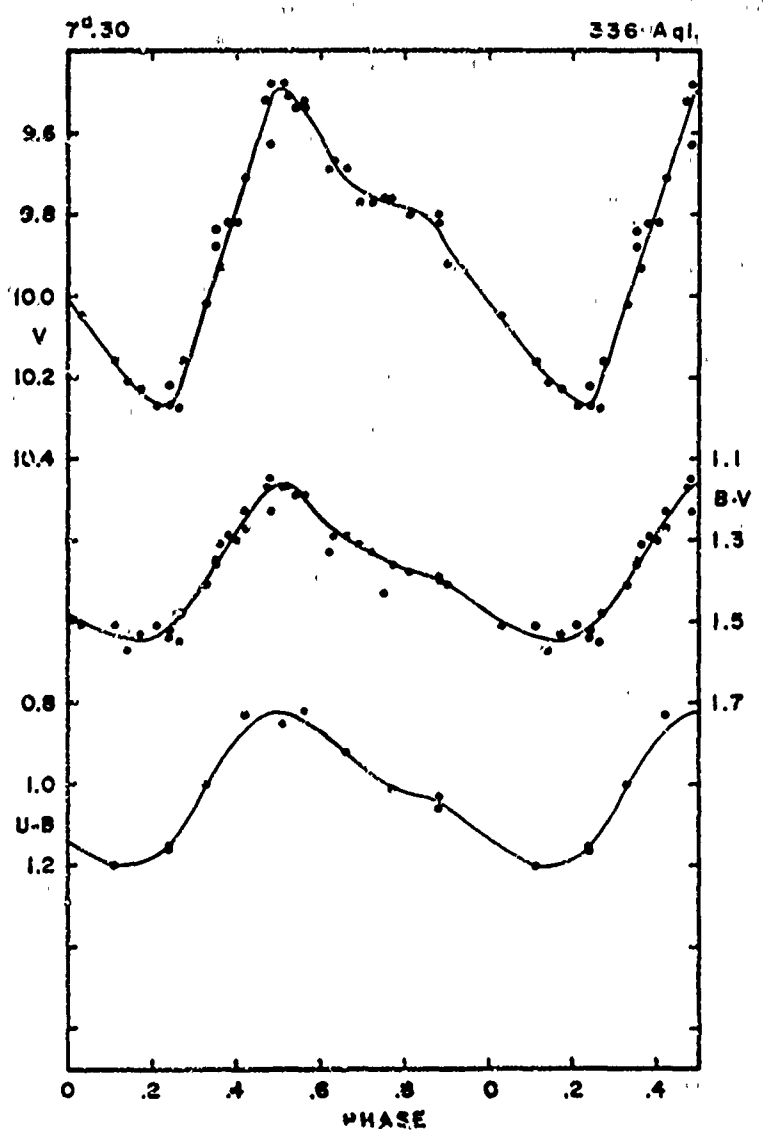
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336 Aql.
9.6
9.8
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V
10.2
10.4
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B-V
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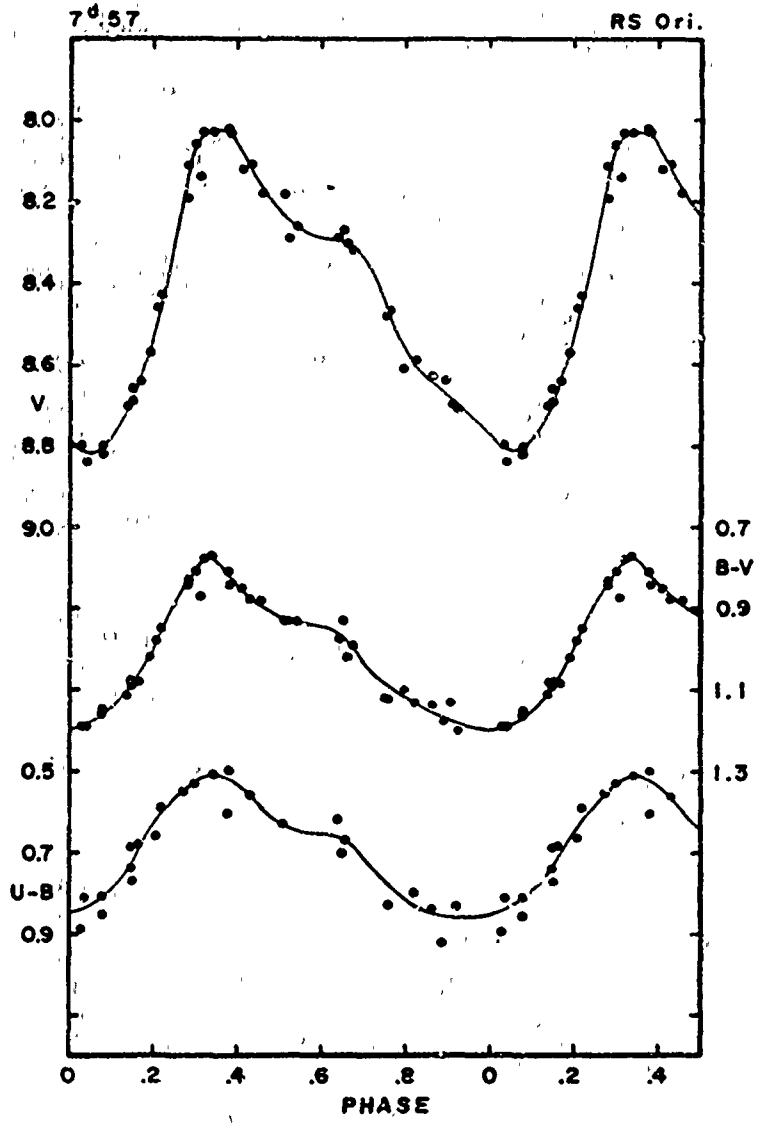
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RS Ori.
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V
8.8
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B-V
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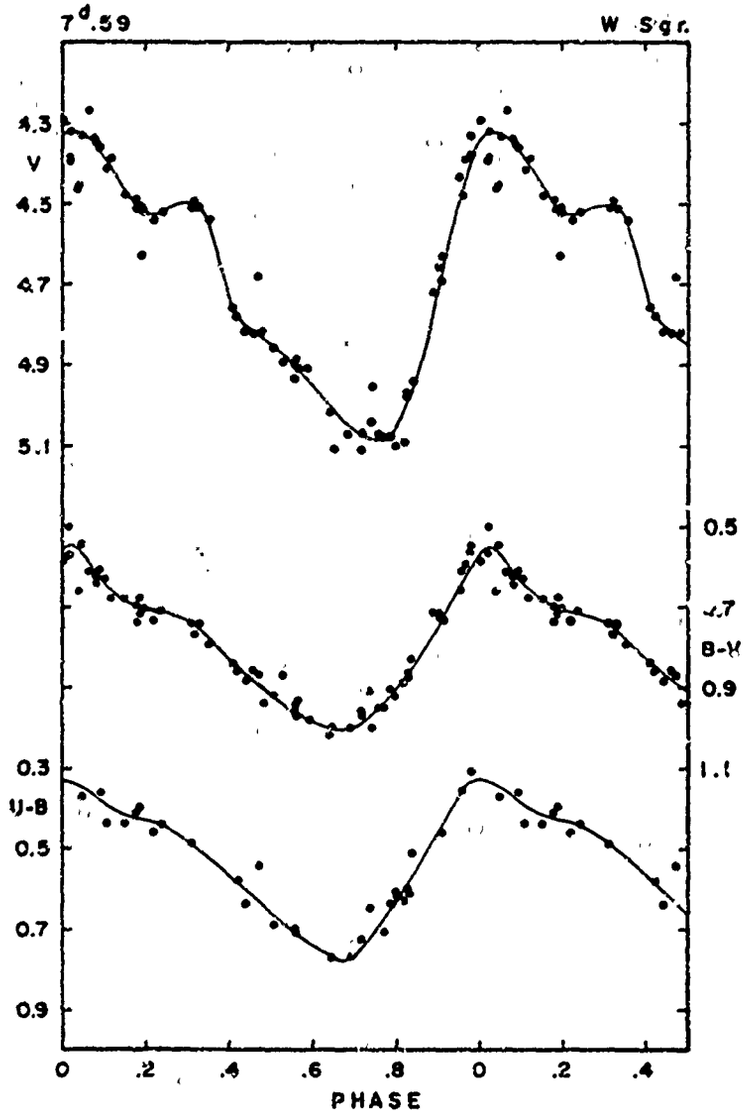
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W Sgr.
4.3
V
4.5
4.7
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5.1
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B-V
0.9
1.1
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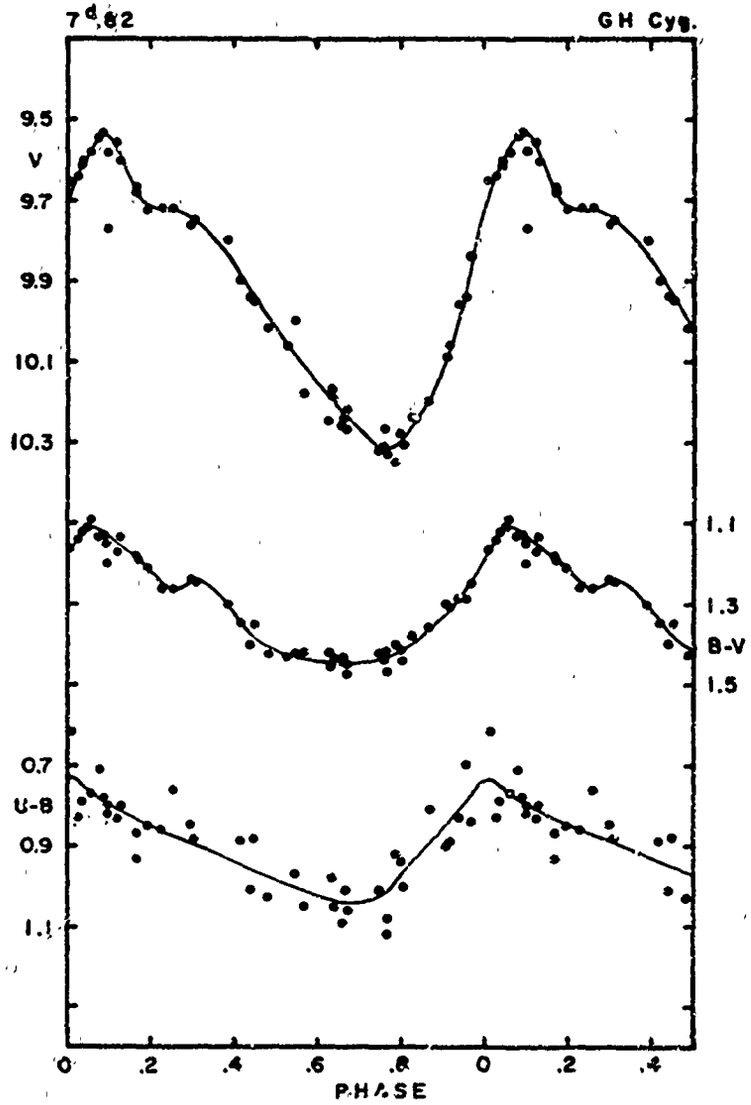
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GH Cyg.
9.5
V
9.7
9.9
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10.3
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B-V
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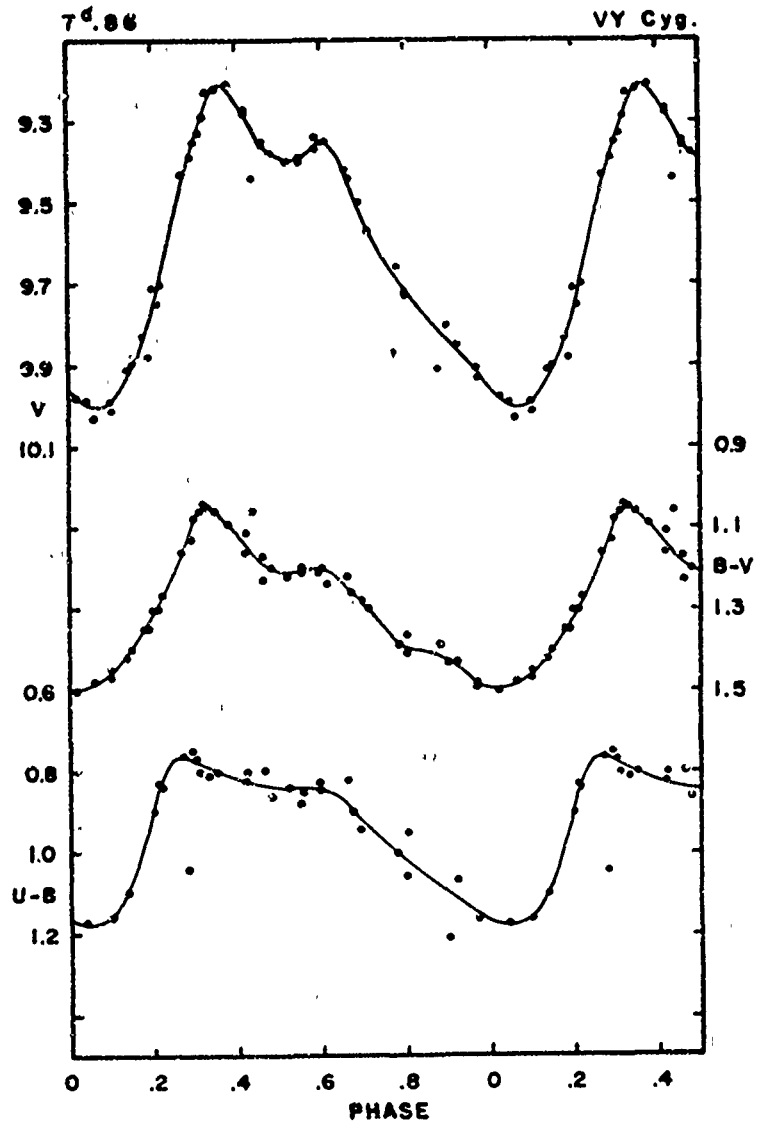
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VY Cyg.
9.3
9.5
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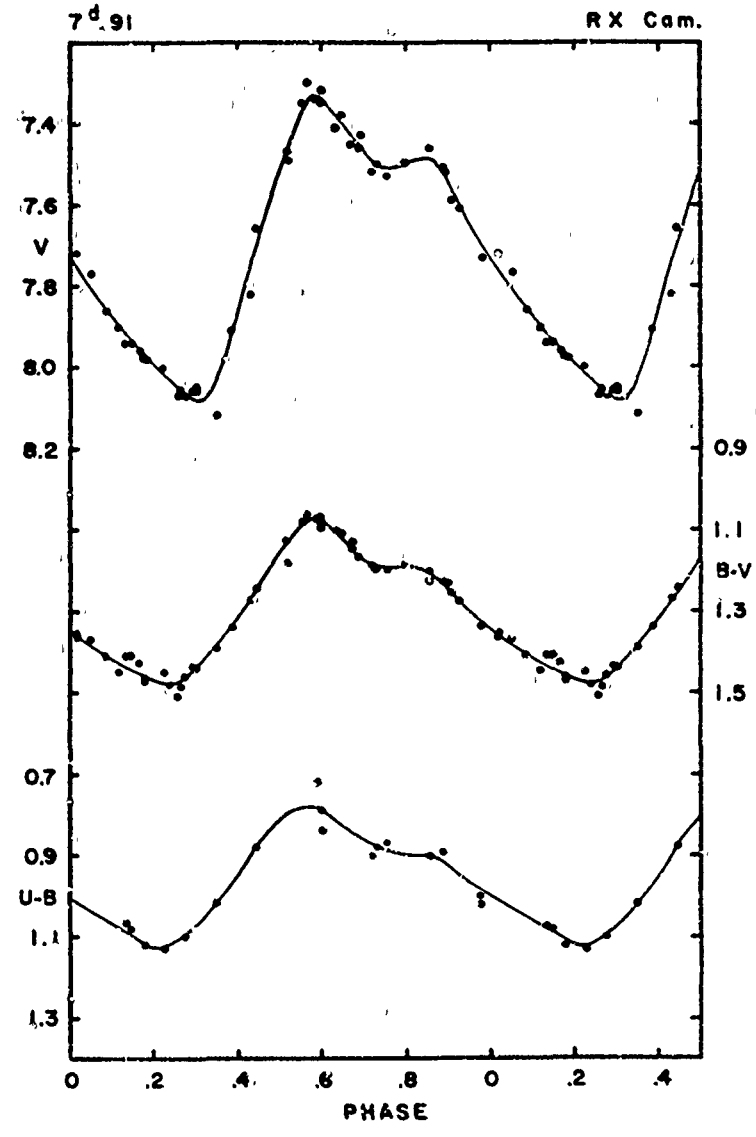
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RX Cam.
7.4
7.6
V
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B-V
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1.5
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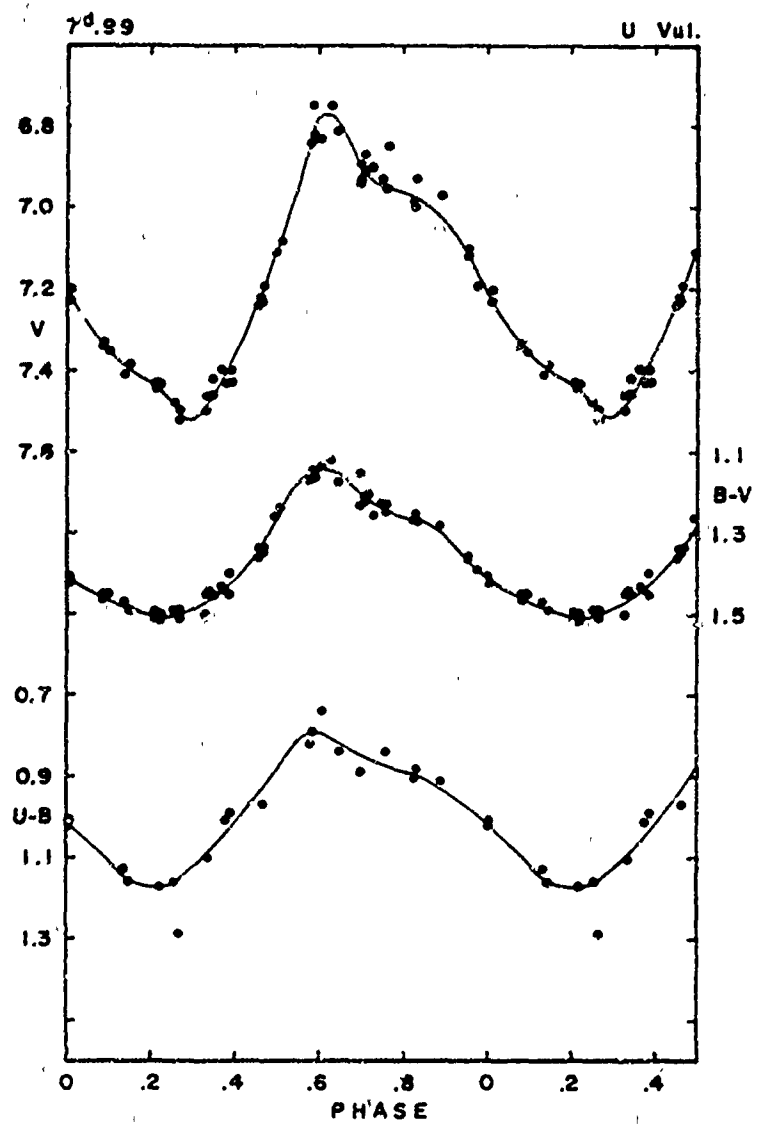
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V
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B-V
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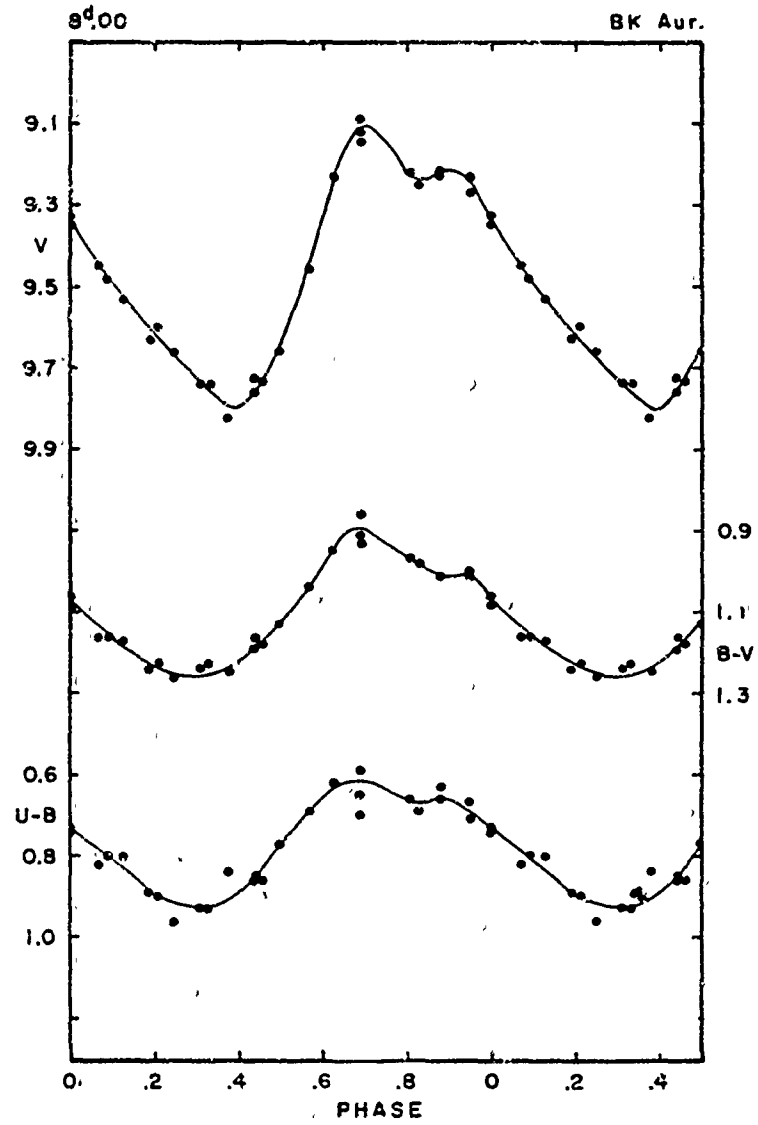
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BK Aur.
9.1
9.3
V
9.5
9.7
9.9
0.9
1.1
B-V
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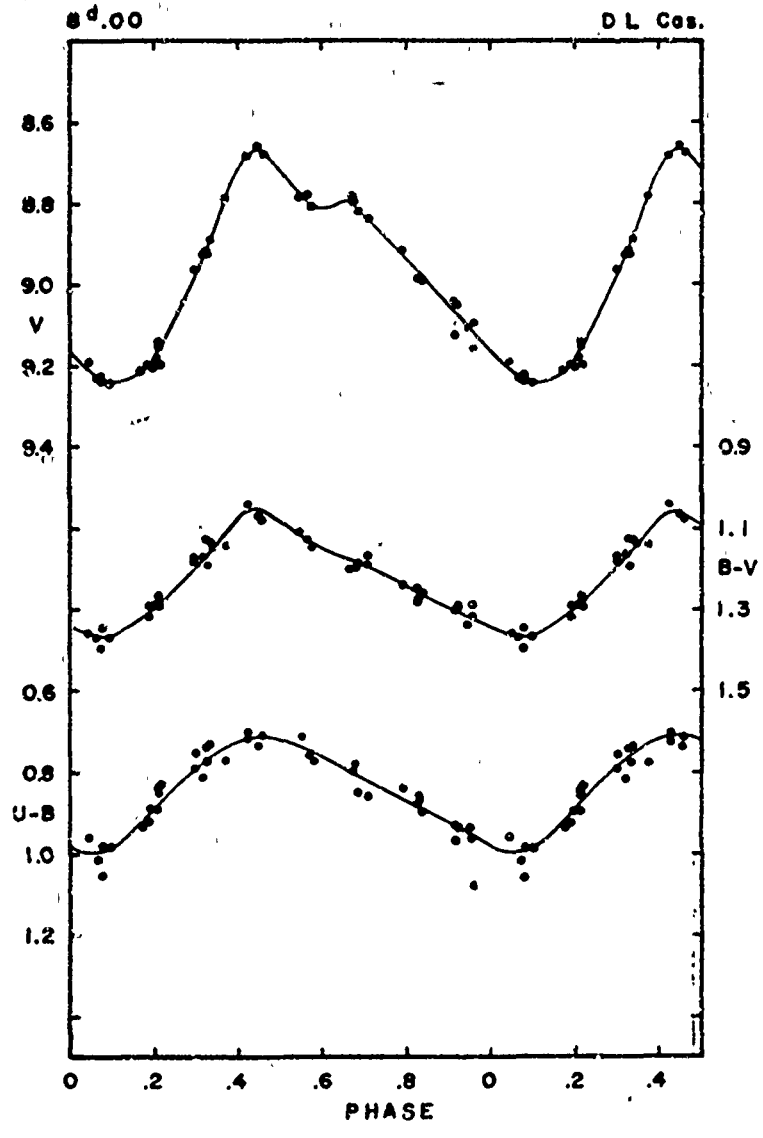
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D L Cas.
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8.8
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V
9.2
9.4
0.9
1.1
B-V
1.3
1.5
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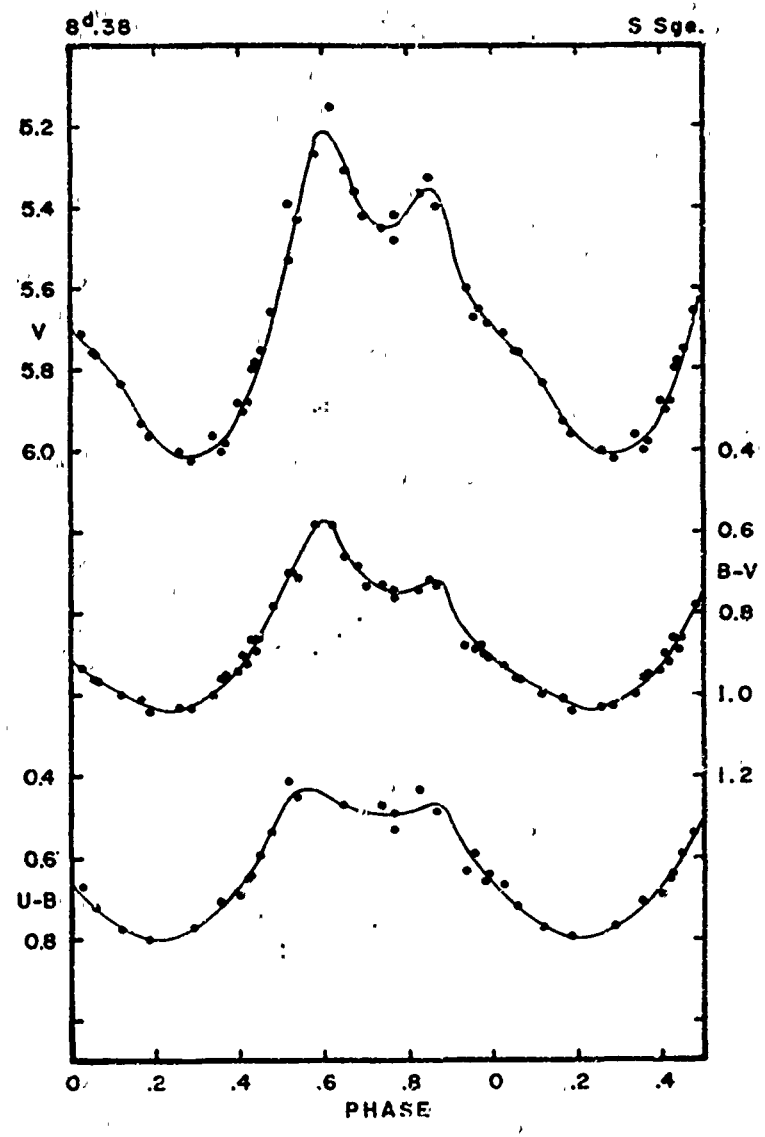
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S Sge.
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5.6
V
5.8
6.0
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B-V
0.8
1.0
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U-B
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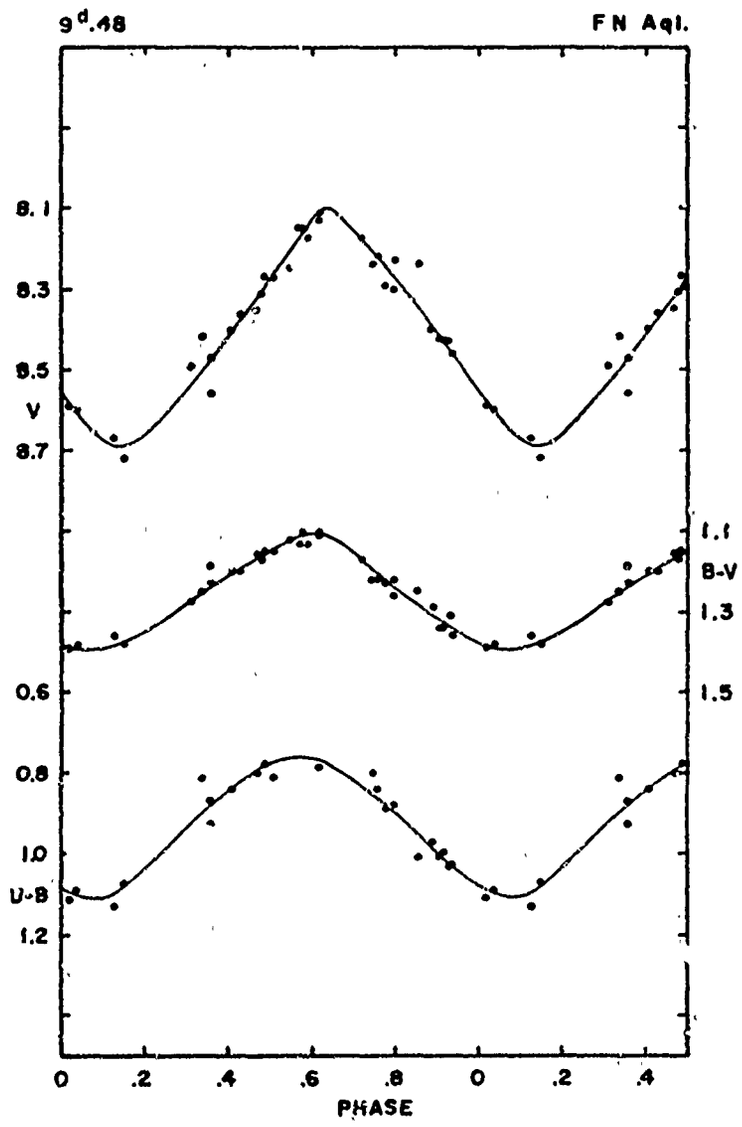
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FN Aql.
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8.3
8.5
V
8.7
1.1
B-V
1.3
1.5
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U-B
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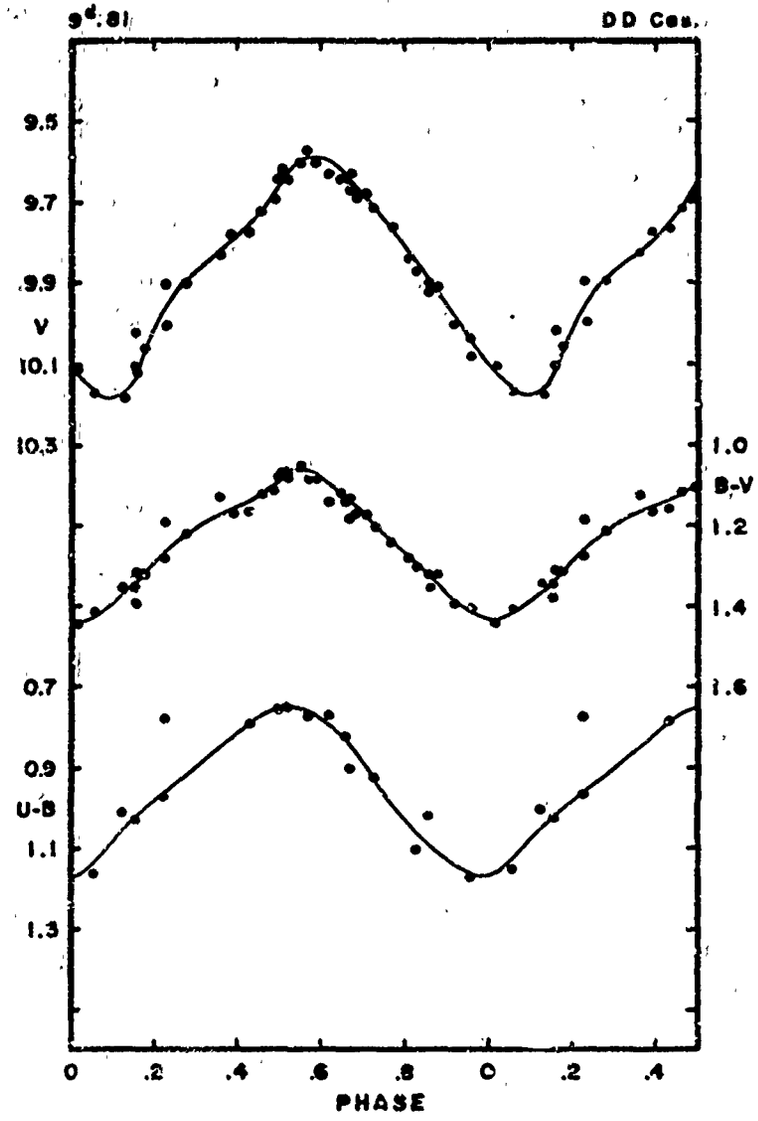
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DD Cas.
9.5
9.7
9.9
V
10.1
10.3
1.0
B-V
1.2
1.4
1.6
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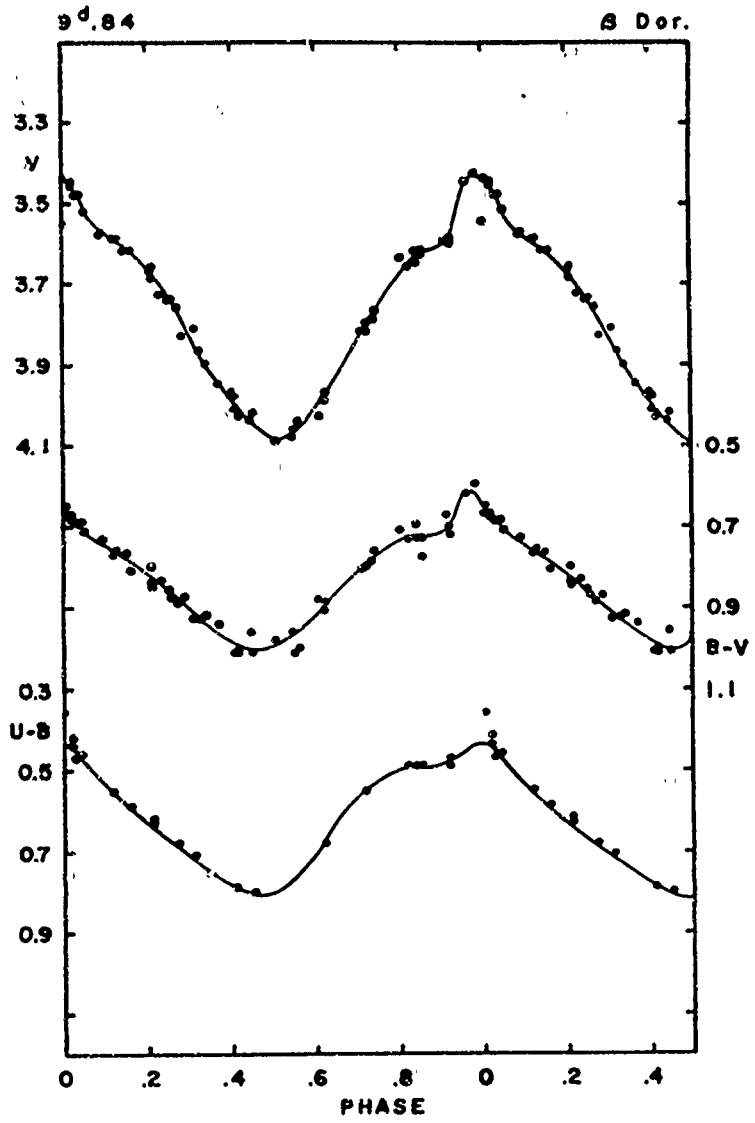
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β Dor.
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V
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3.7
3.9
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0.9
B-V
1.1
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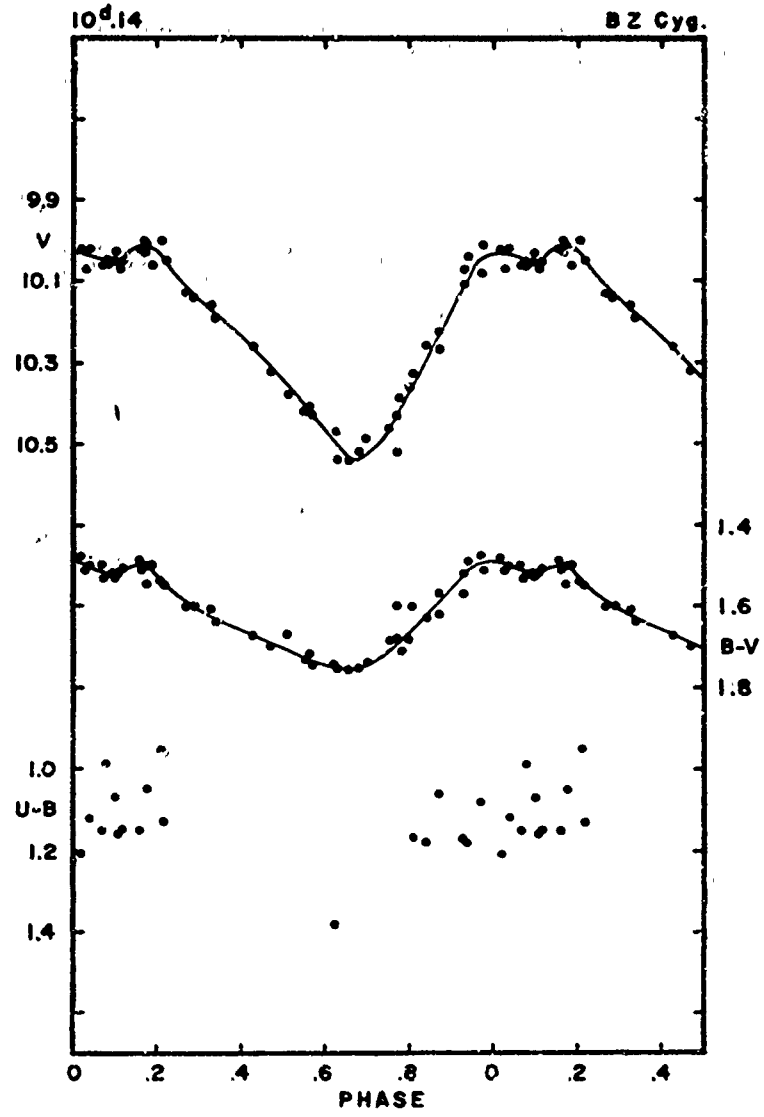
PHASE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BZ Cyg.
9.9
V
10.1
10.3
10.5
1.4
1.6
B-V
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U-B
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.2
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.6
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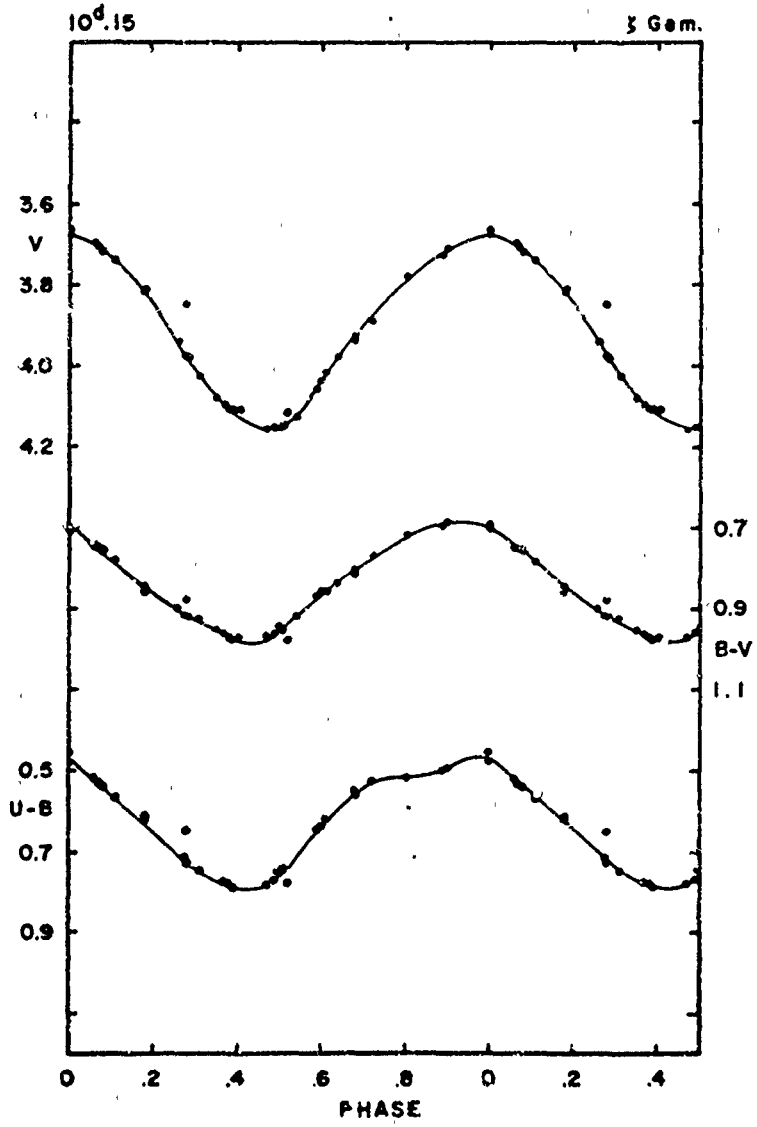
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ζ Gem.
3.6
V
3.8
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0.7
0.9
B-V
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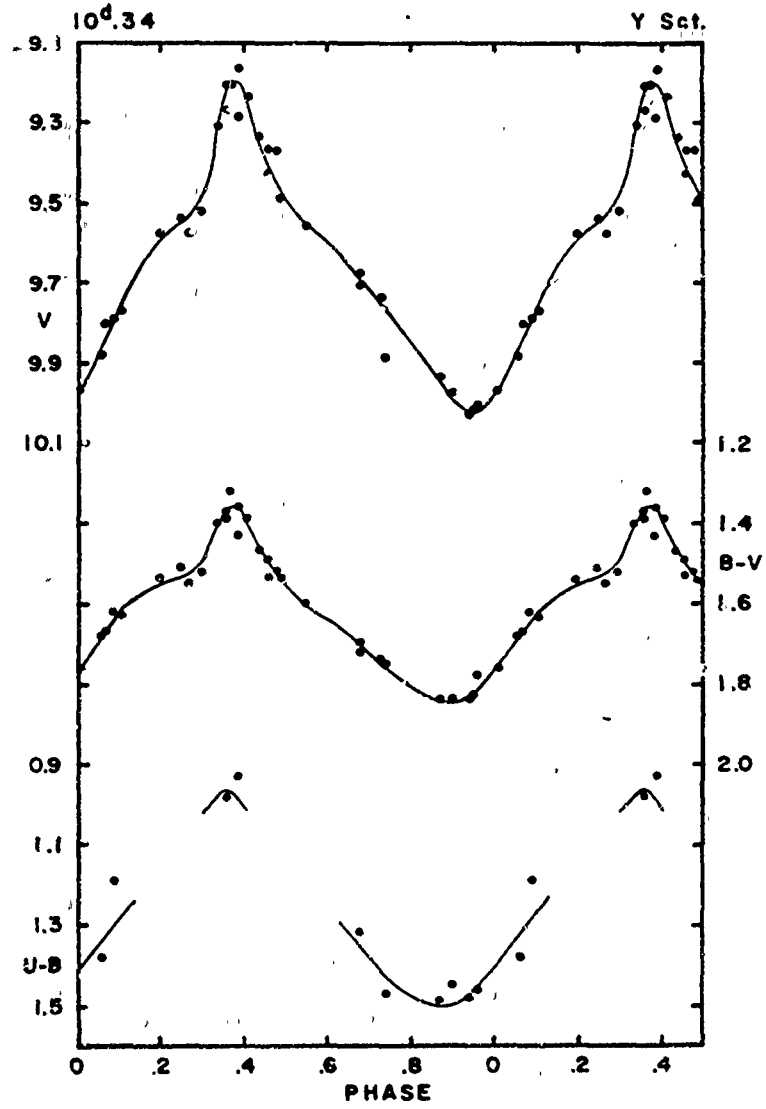
PHASE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9.1
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9.7
V
9.9
10.1
1.2
1.4
B-V
1.6
1.8
2.0
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1.3
U-B
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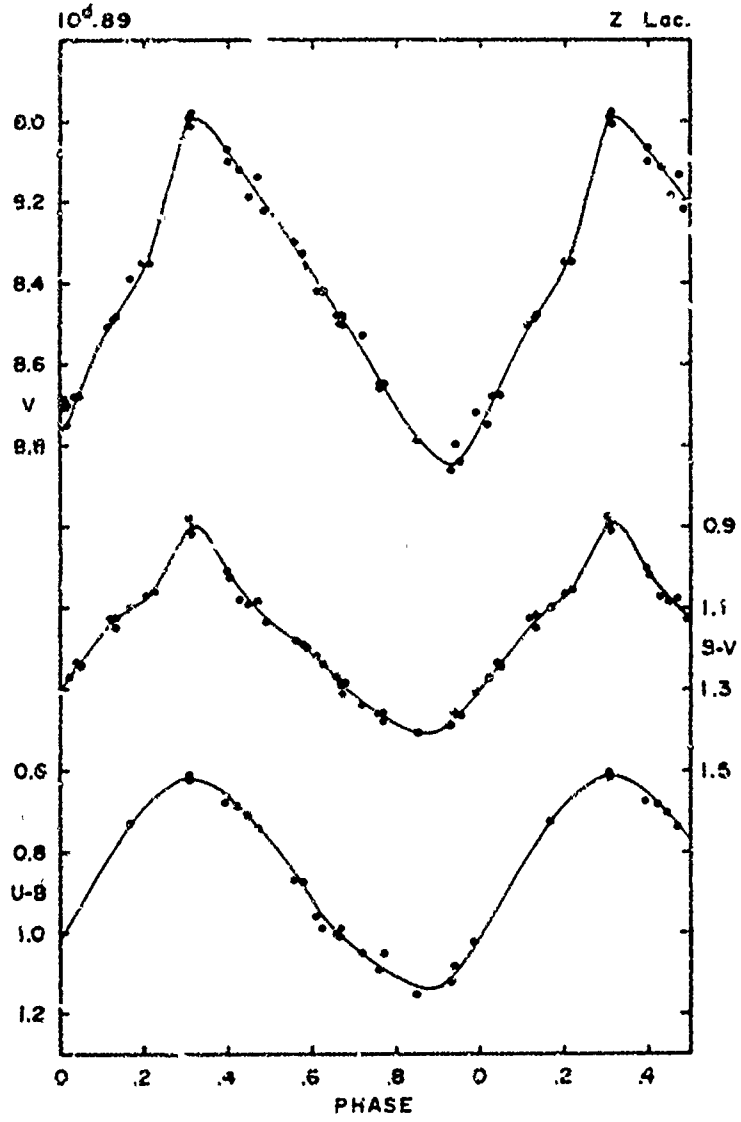
PHASE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Z Lac.
8.0
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V
8.8
0.9
1.1
B-V
1.3
1.5
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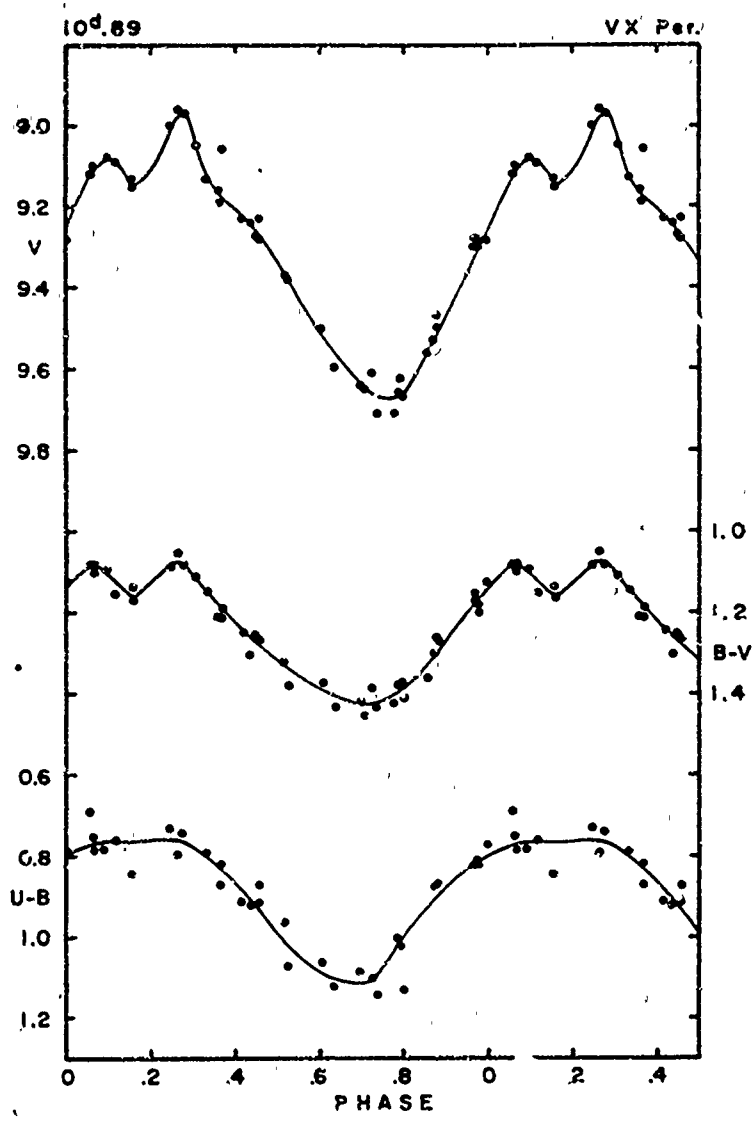
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VX Per.
9.0
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V
9.4
9.6
9.8
1.0
1.2
B-V
1.4
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U-B
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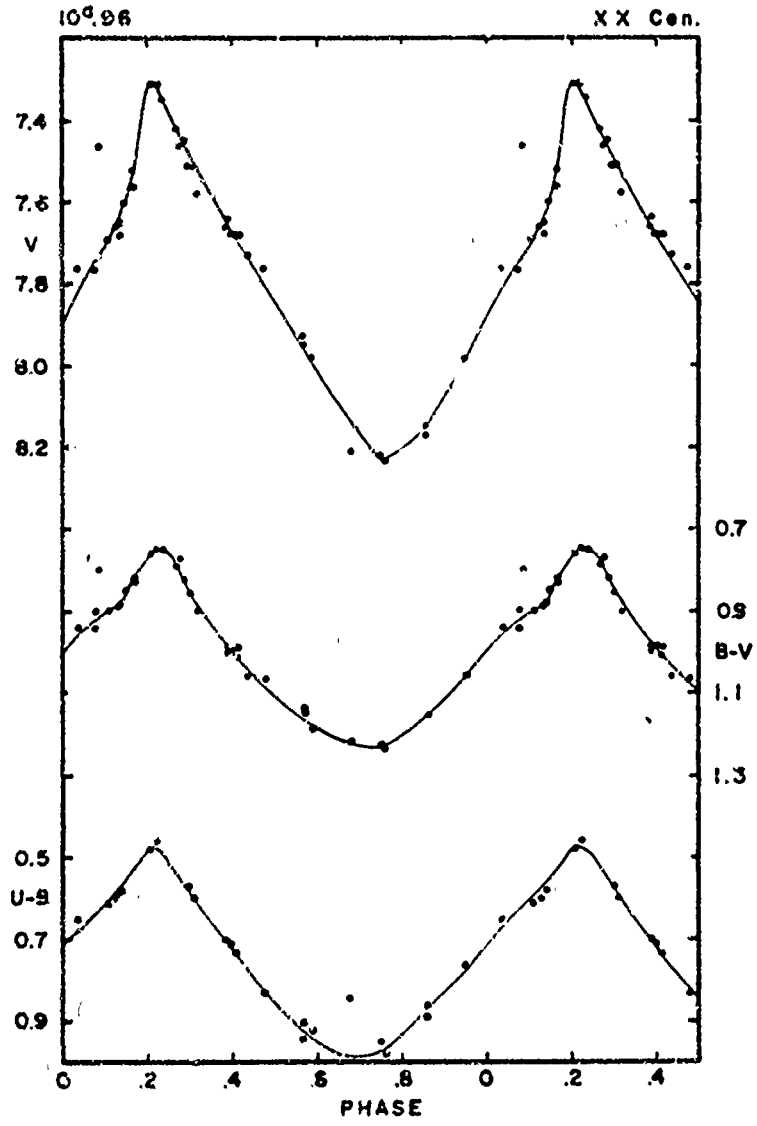
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B-V
1.1
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U-B
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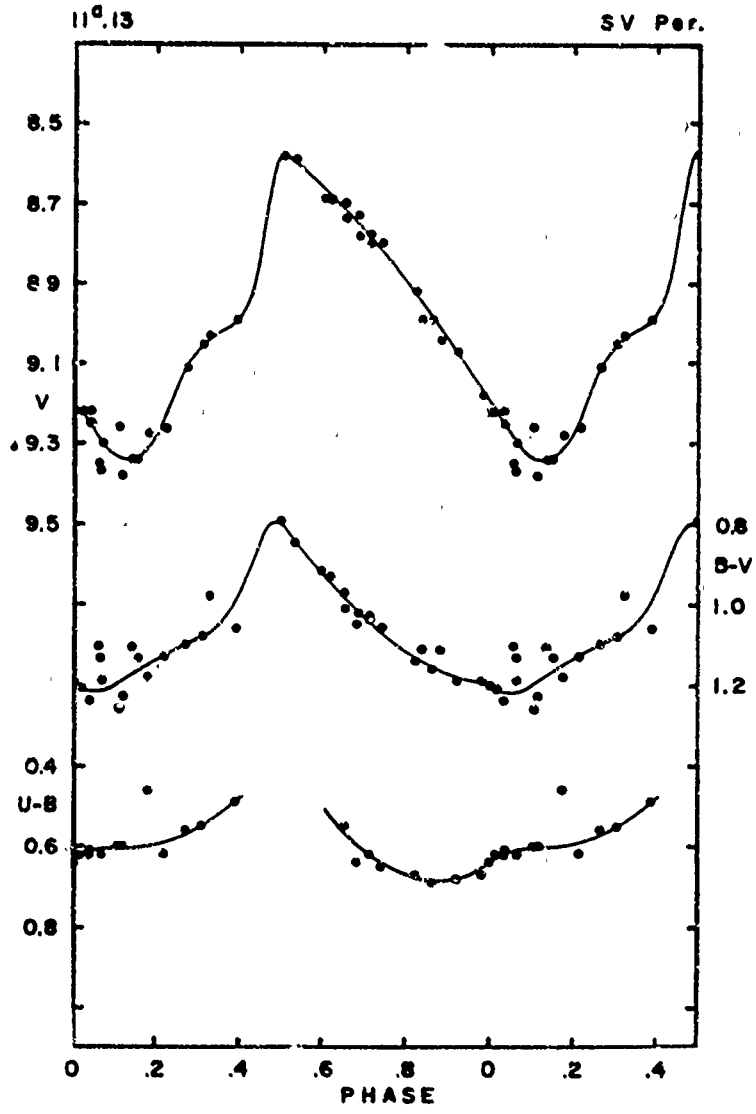
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V
9.3
9.5
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B-V
1.0
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U-B
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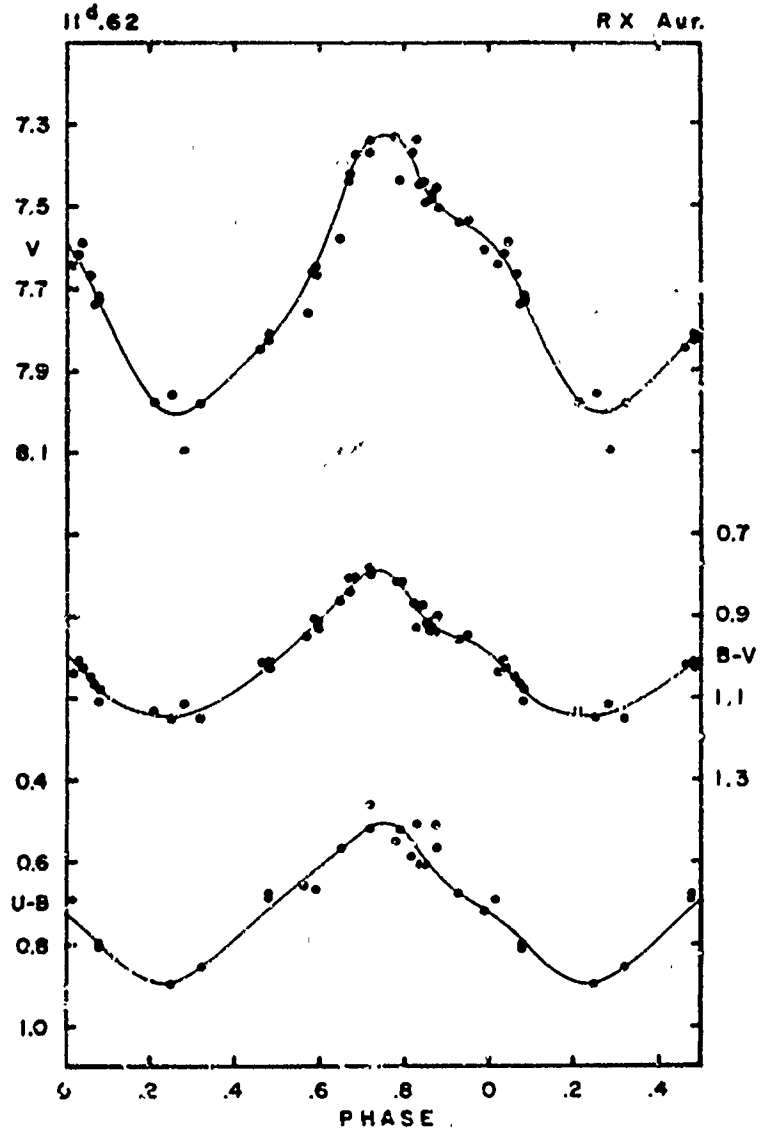
PHASE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RX Aur.
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V
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7.9
8.1
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0.9
B-V
1.1
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U-B
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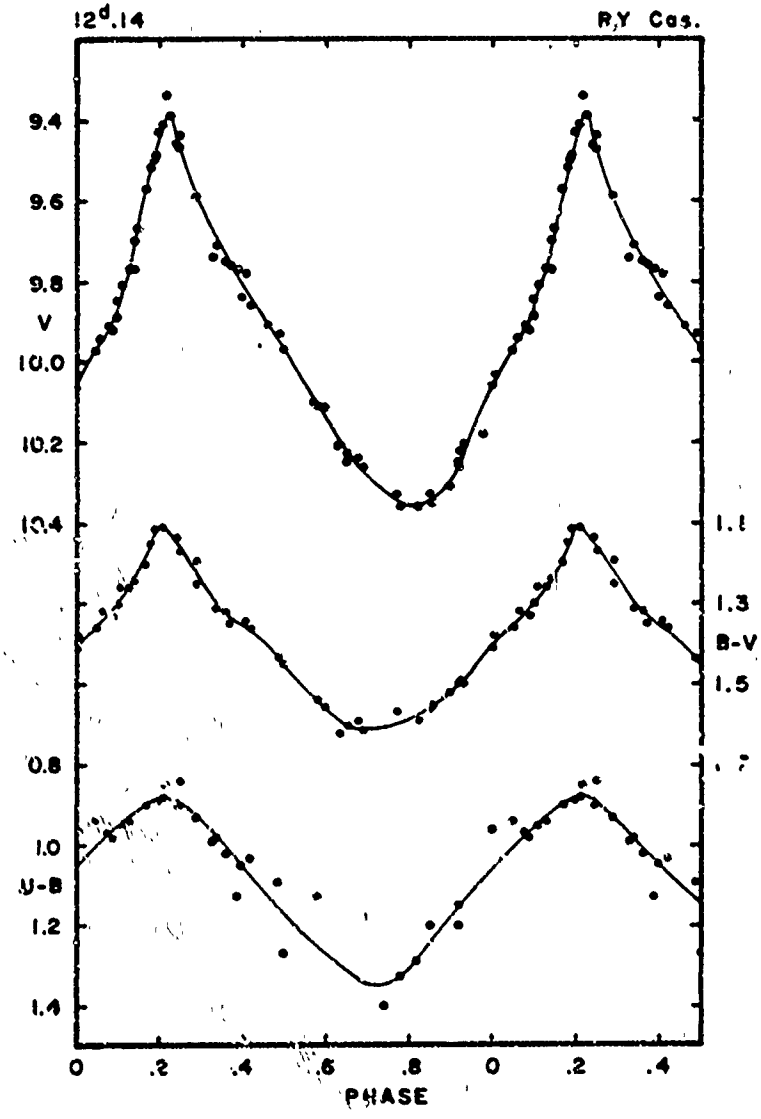
PHASE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RY Cas.
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9.6
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V
10.0
10.2
10.4
1.1
1.3
B-V
1.5
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U-B
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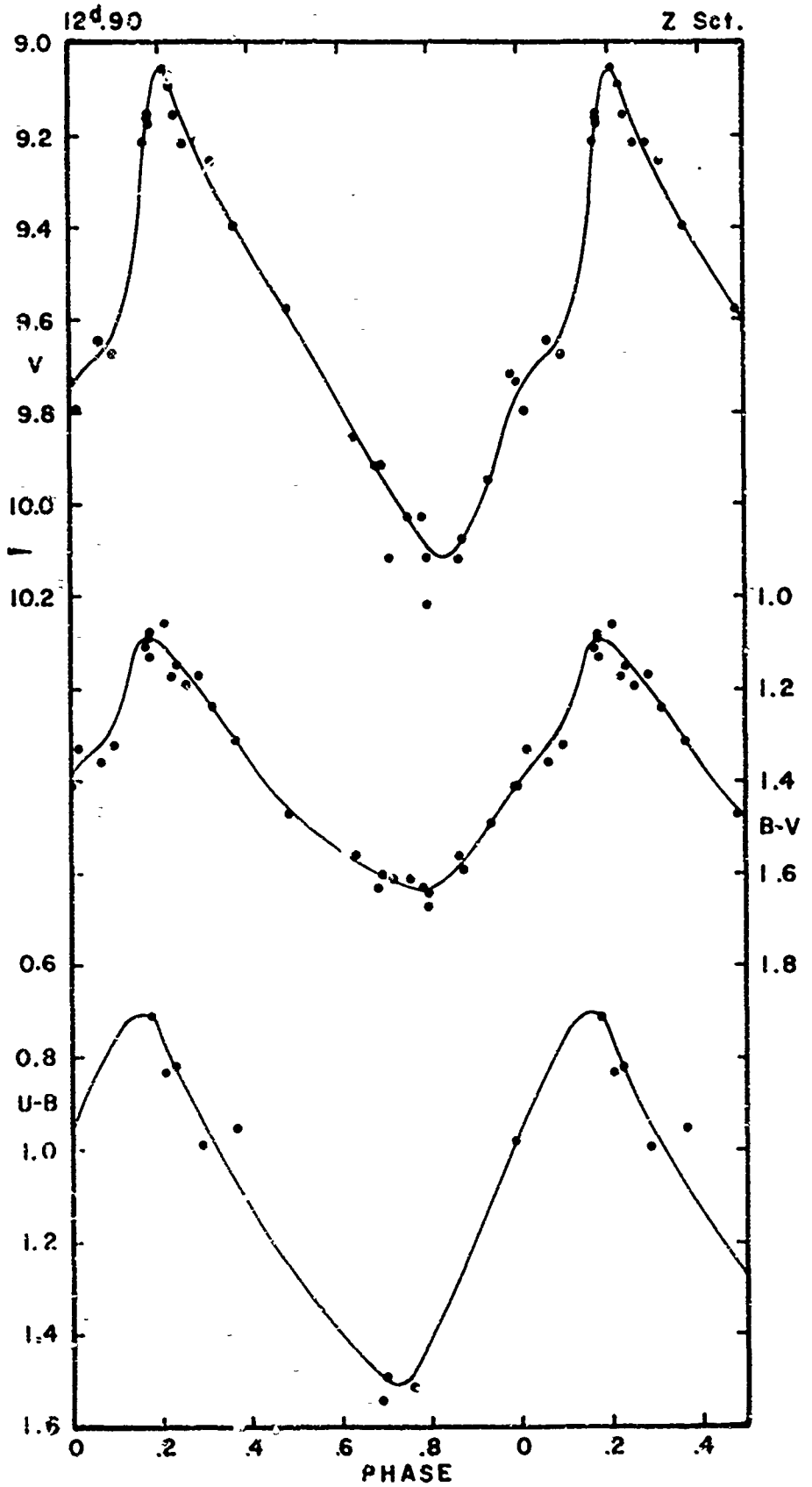
PHASE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9.6
V
9.8
10.0
10.2
1.0
1.2
1.4
B-V
1.6
1.8
0.6
0.8
U-B
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1.4
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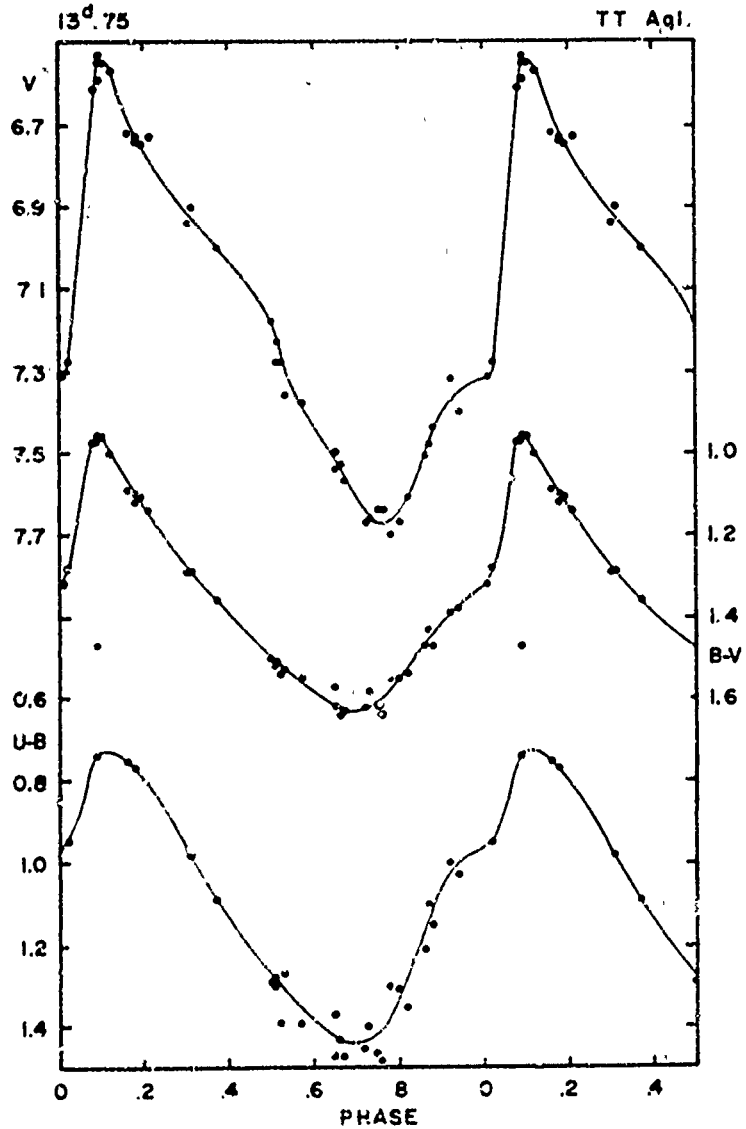
PHASE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TT Aql.
V
6.7
6.9
7.1
7.3
7.5
7.7
1.0
1.2
1.4
B-V
1.6
0.6
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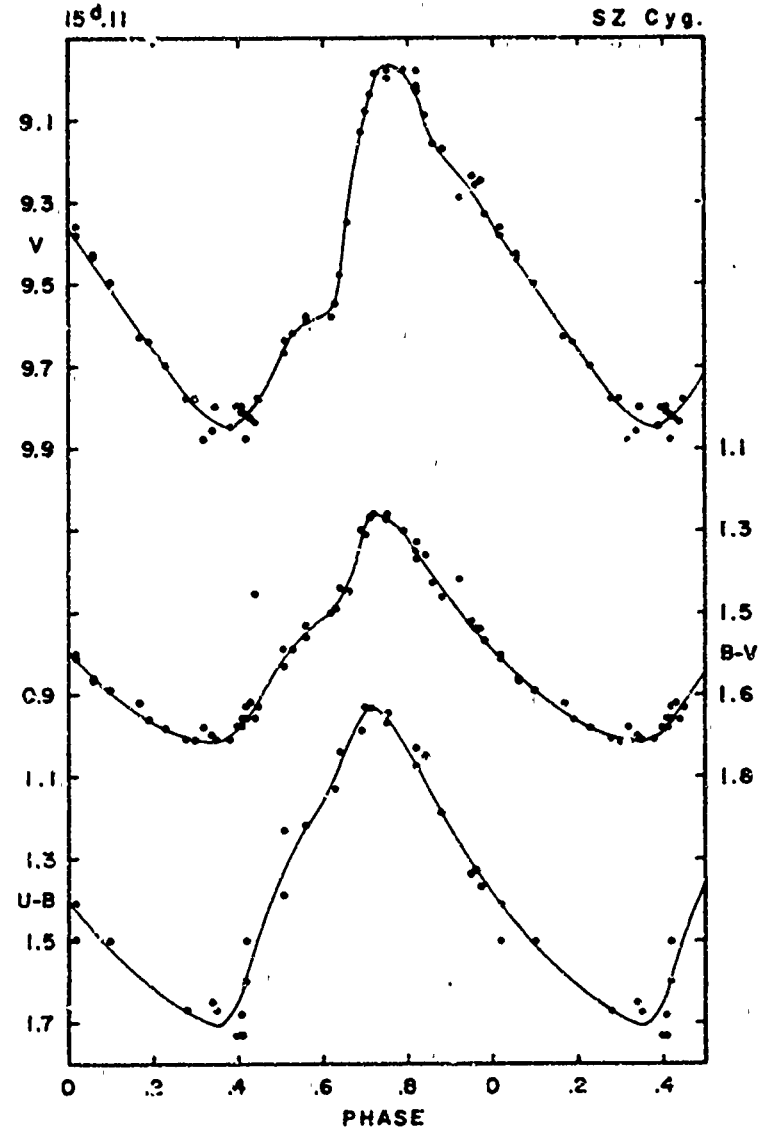
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9.9
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1.3
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B-V
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1.8
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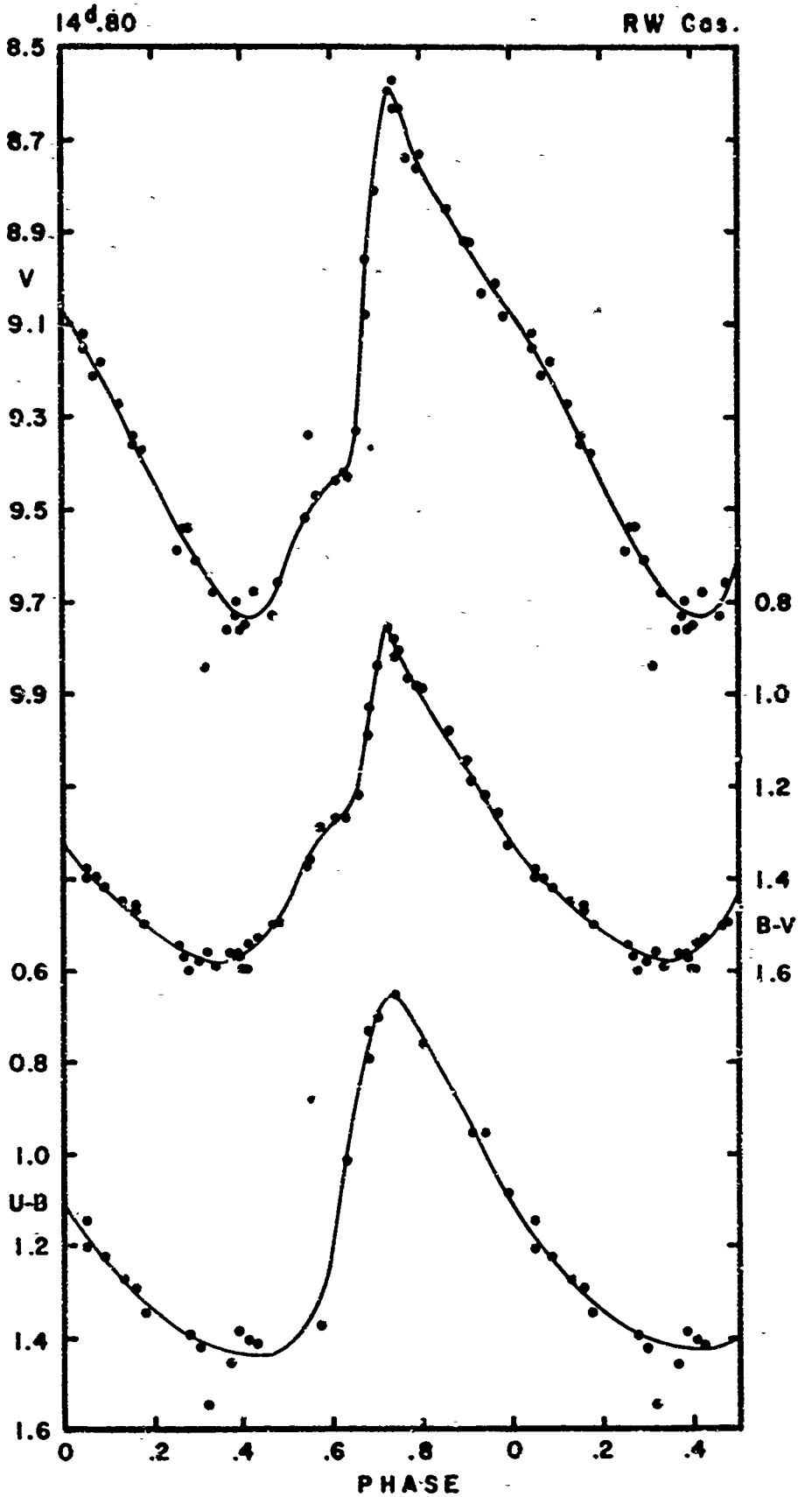
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9.3
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0.8
1.0
1.2
1.4
B-V
1.6
0.6
0.8
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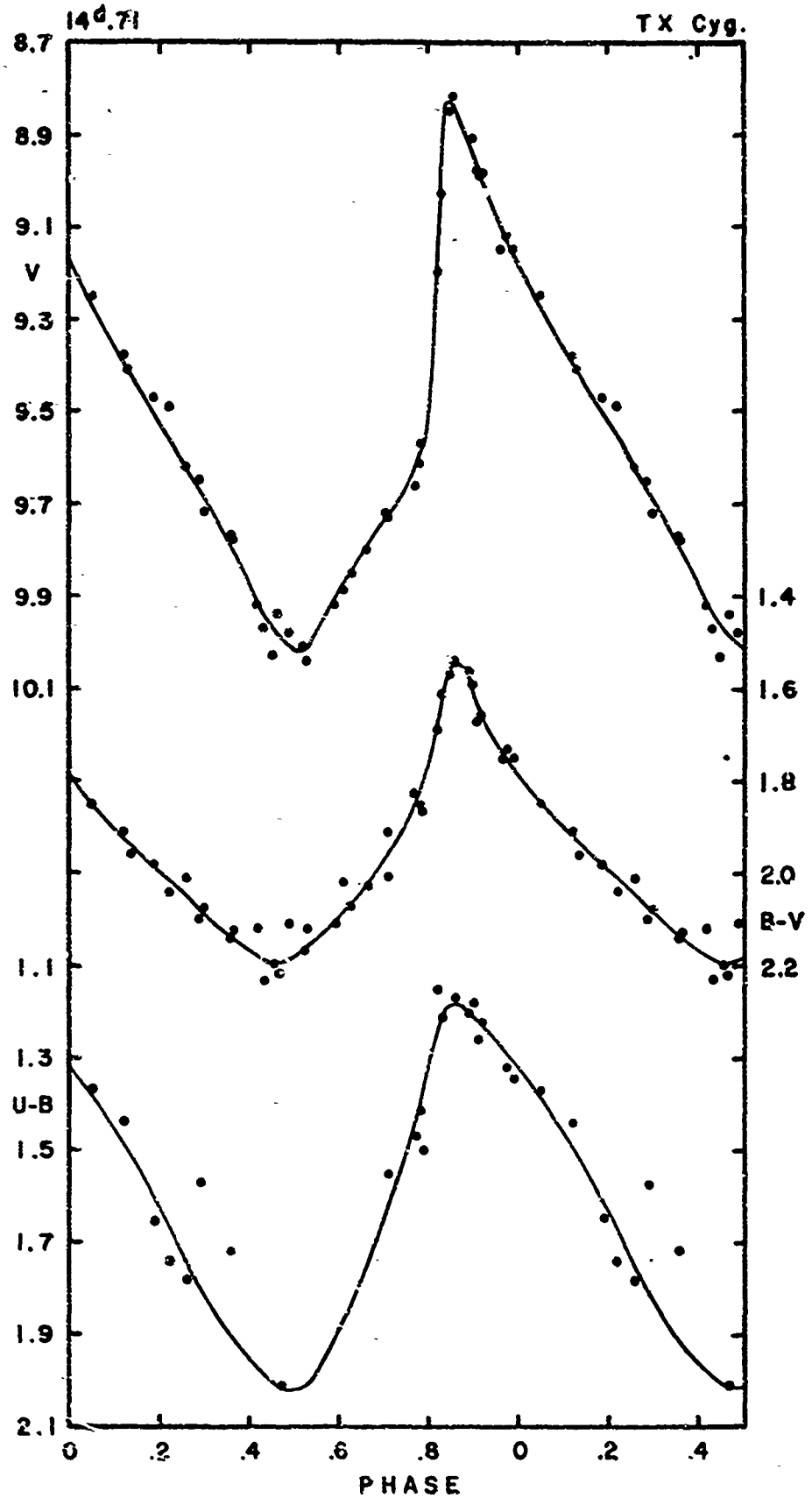
PHASE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TX Cyg.
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9.3
9.5
9.7
9.9
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1.4
1.6
1.8
2.0
B-V
2.2
1.1
1.3
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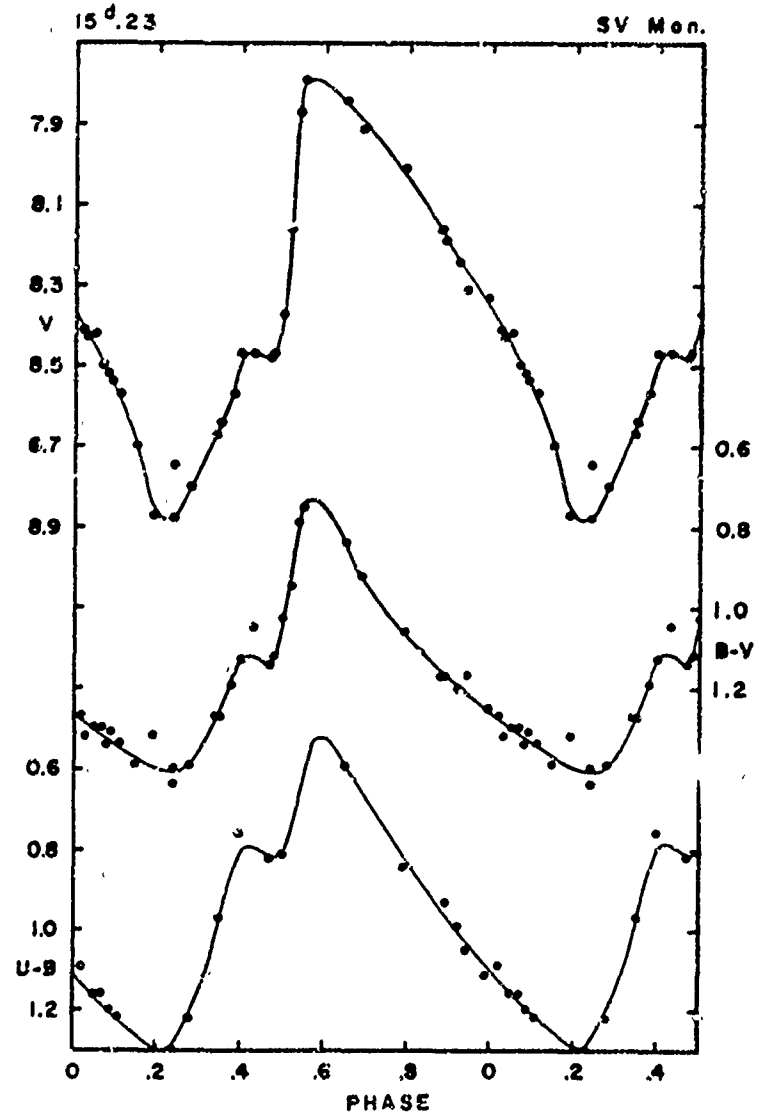
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V
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8.7
8.9
0.6
0.8
1.0
B-V
1.2
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U-B
1.2
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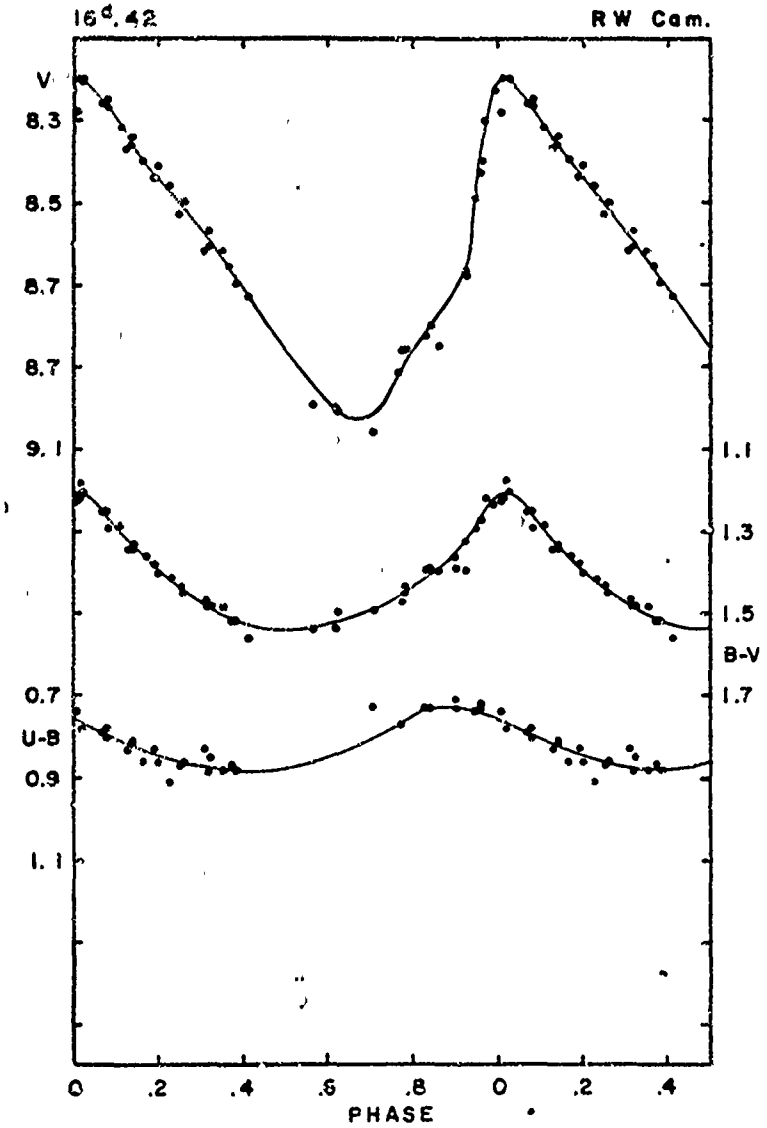
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V
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8.7
9.1
1.1
1.3
1.5
B-V
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U-B
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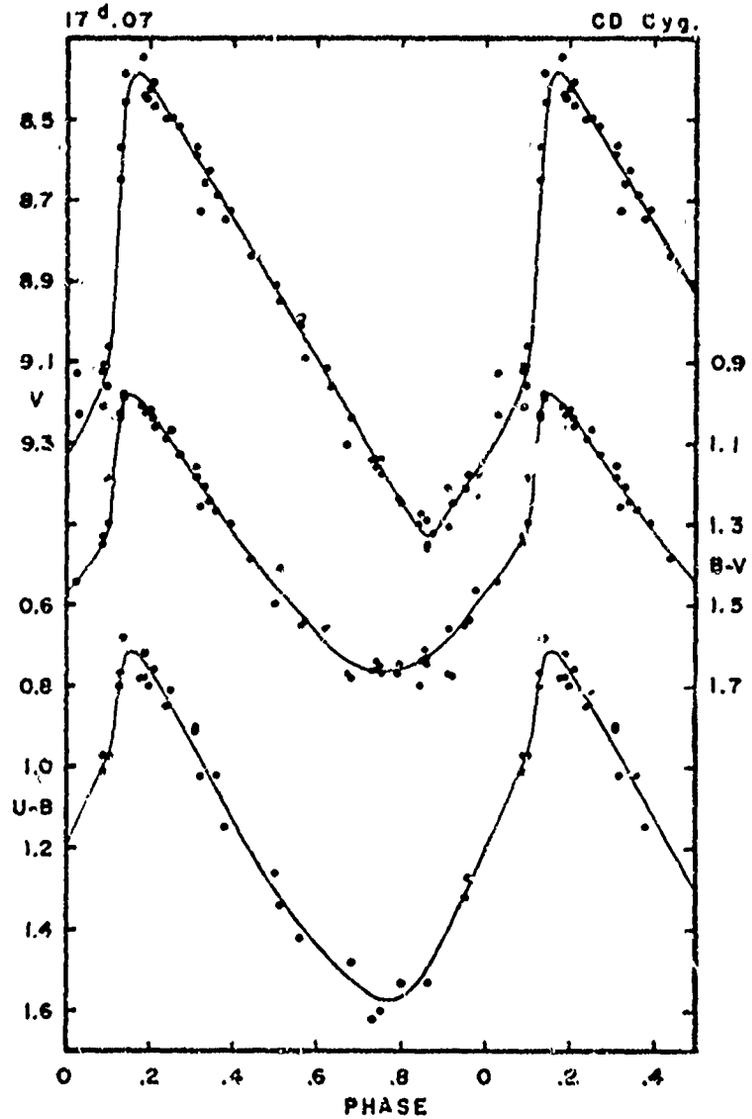
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CD Cyg.
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V
9.3
0.9
1.1
1.3
B-V
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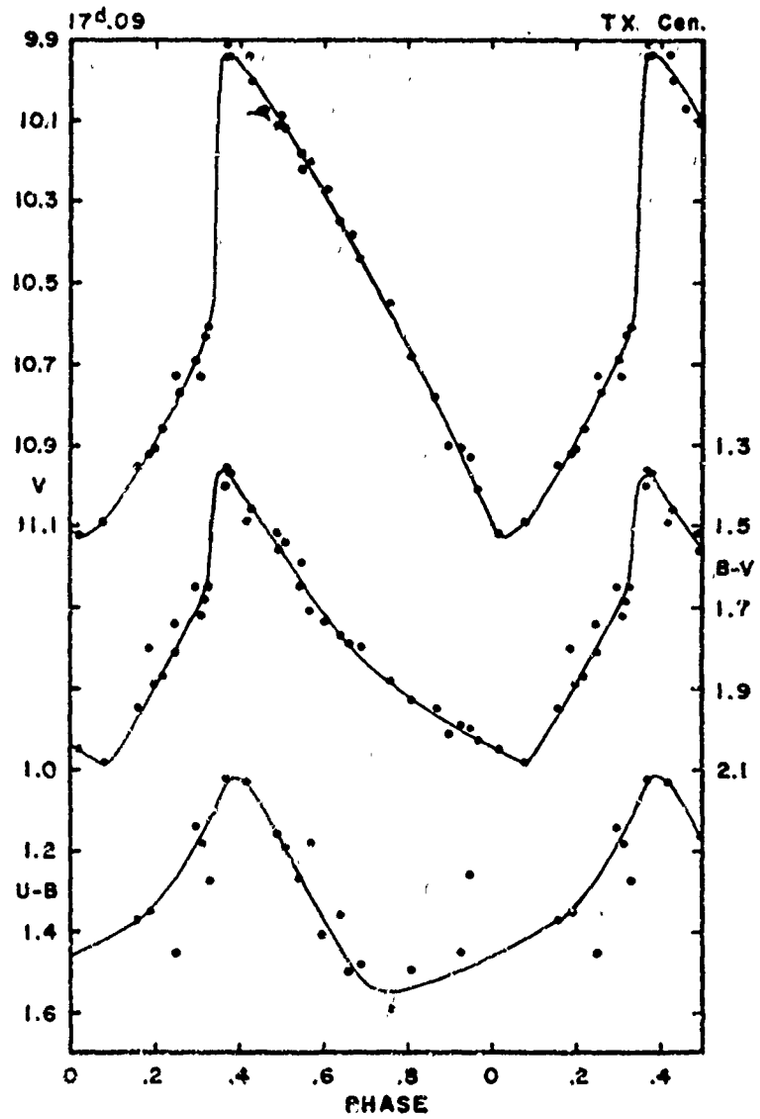
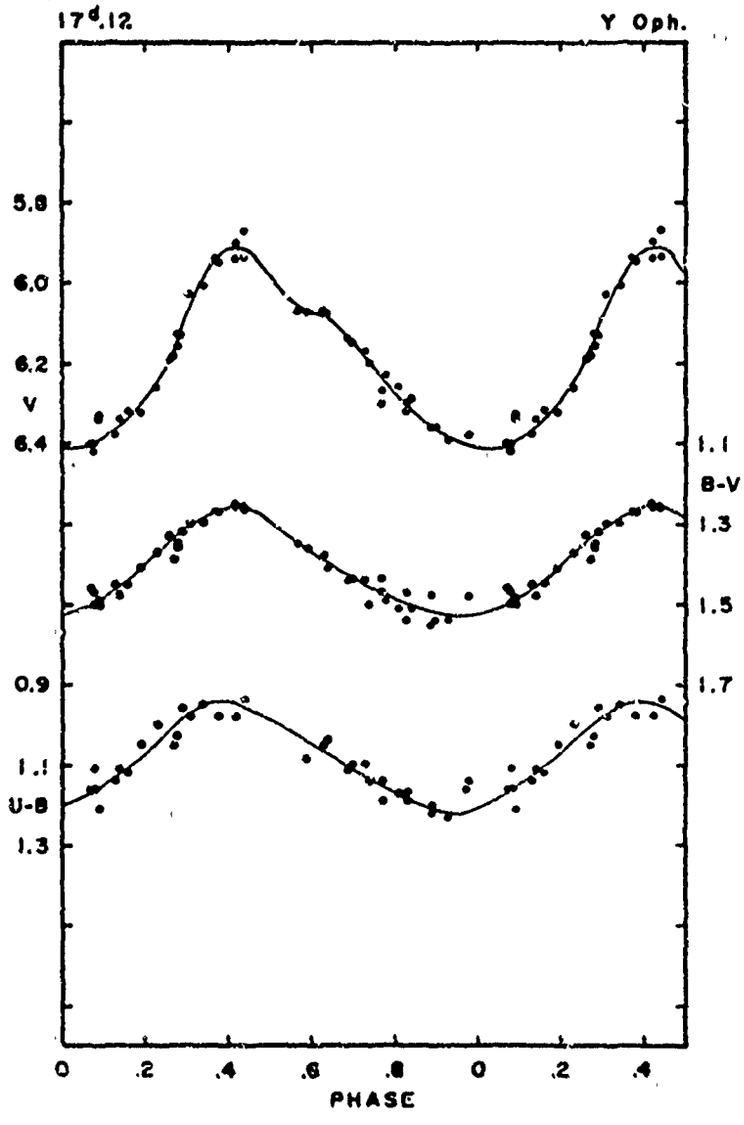
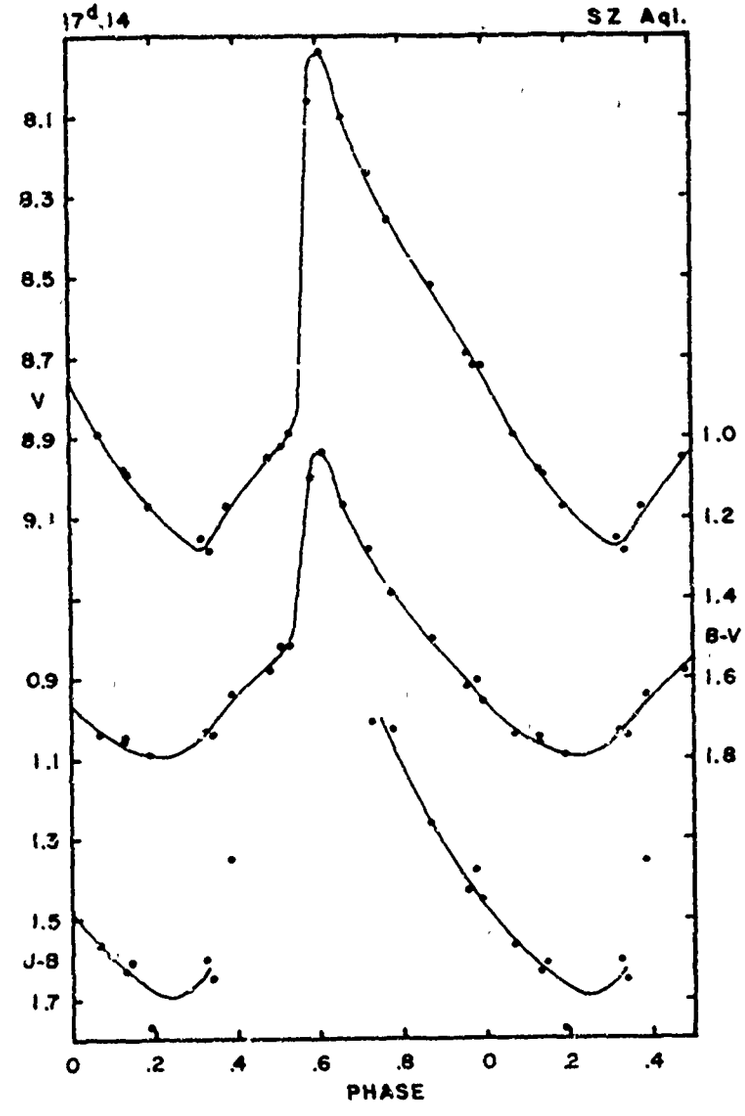
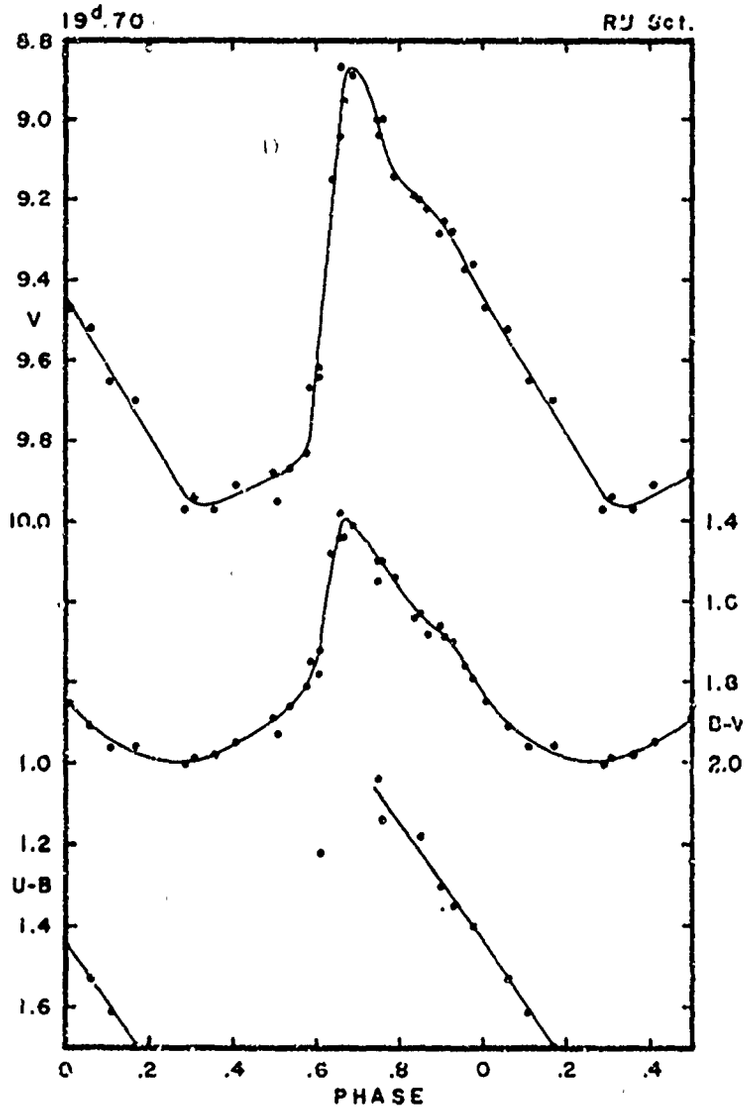
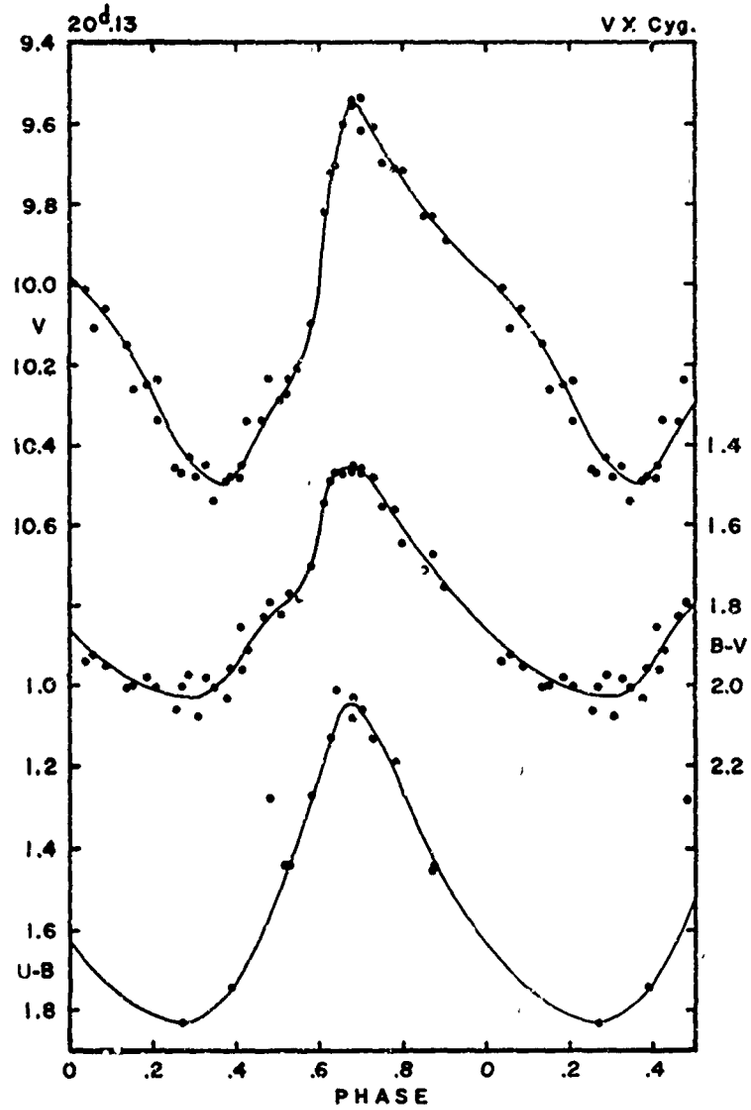
1.7
0.6
0.8
1.0
U-B
1.2
1.4
1.6
0
.2
.4
.6
.8
0
.2
.4
PHASE

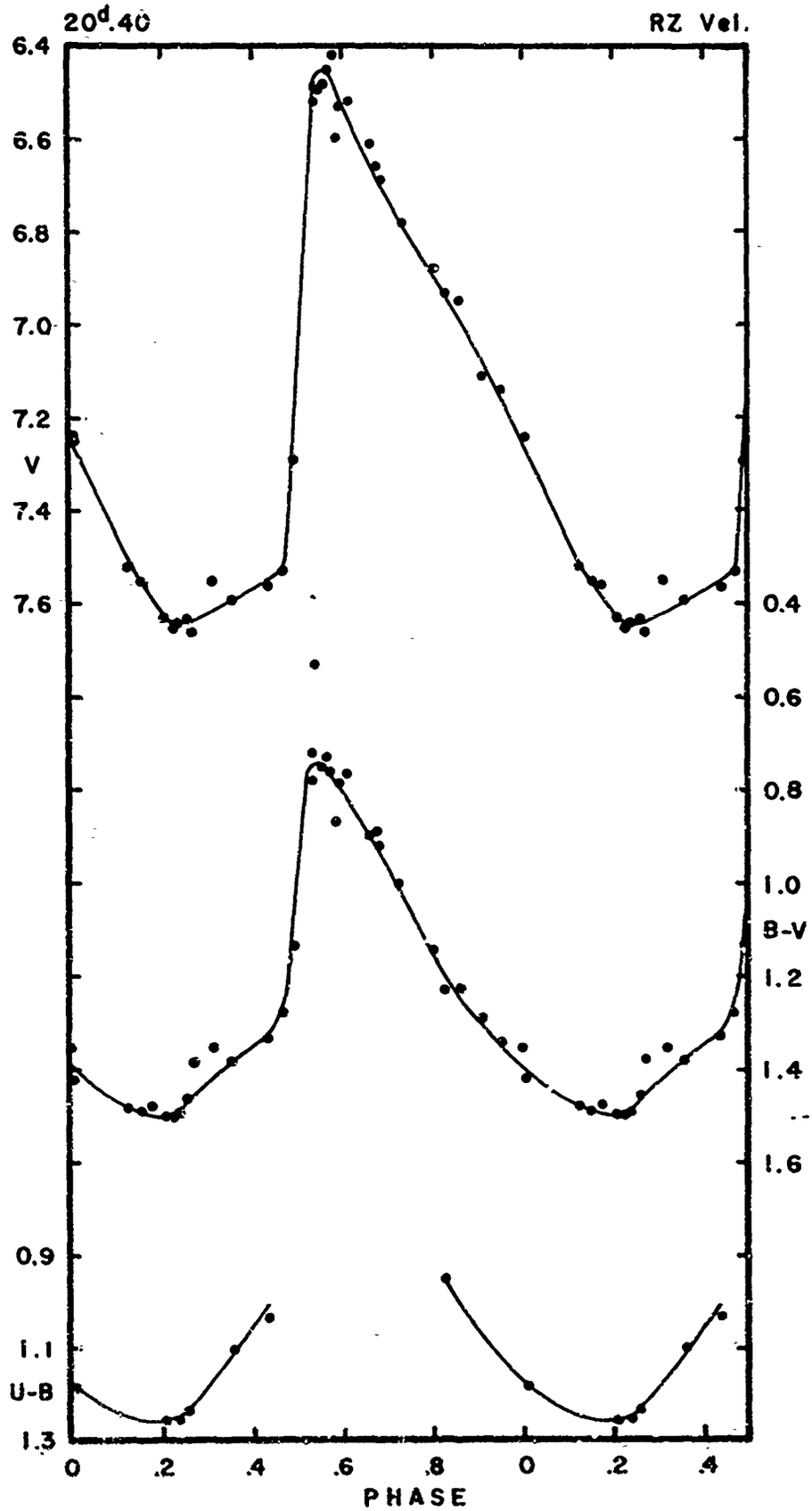

17d.09
TX Cen.
9.9
10.1
10.3
10.5
10.7
10.9
V
11.1
1.3
1.5
B-V
1.7
1.9
2.1
1.0
1.2
U-B
1.4
1.6
0
.2
.4
.6
.8
0
.2
.4
PHASE

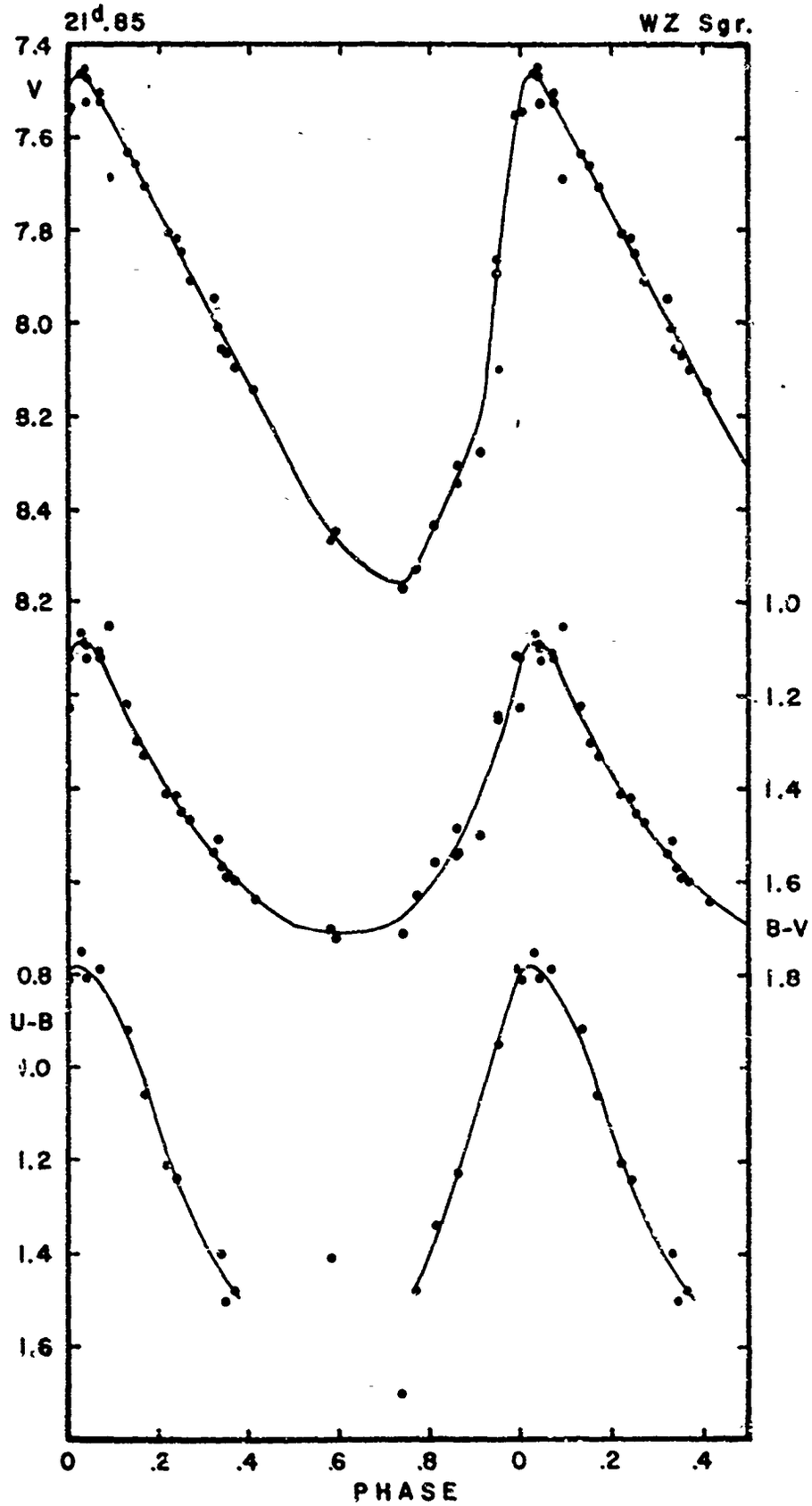

17d.12
Y Oph.
5.8
6.0
6.2
V
6.4
1.1
B-V
1.3
1.5
0.9
1.7
1.1
U-B
1.3
0
.2
.4
.6
.8
0
.2
.4
PHASE

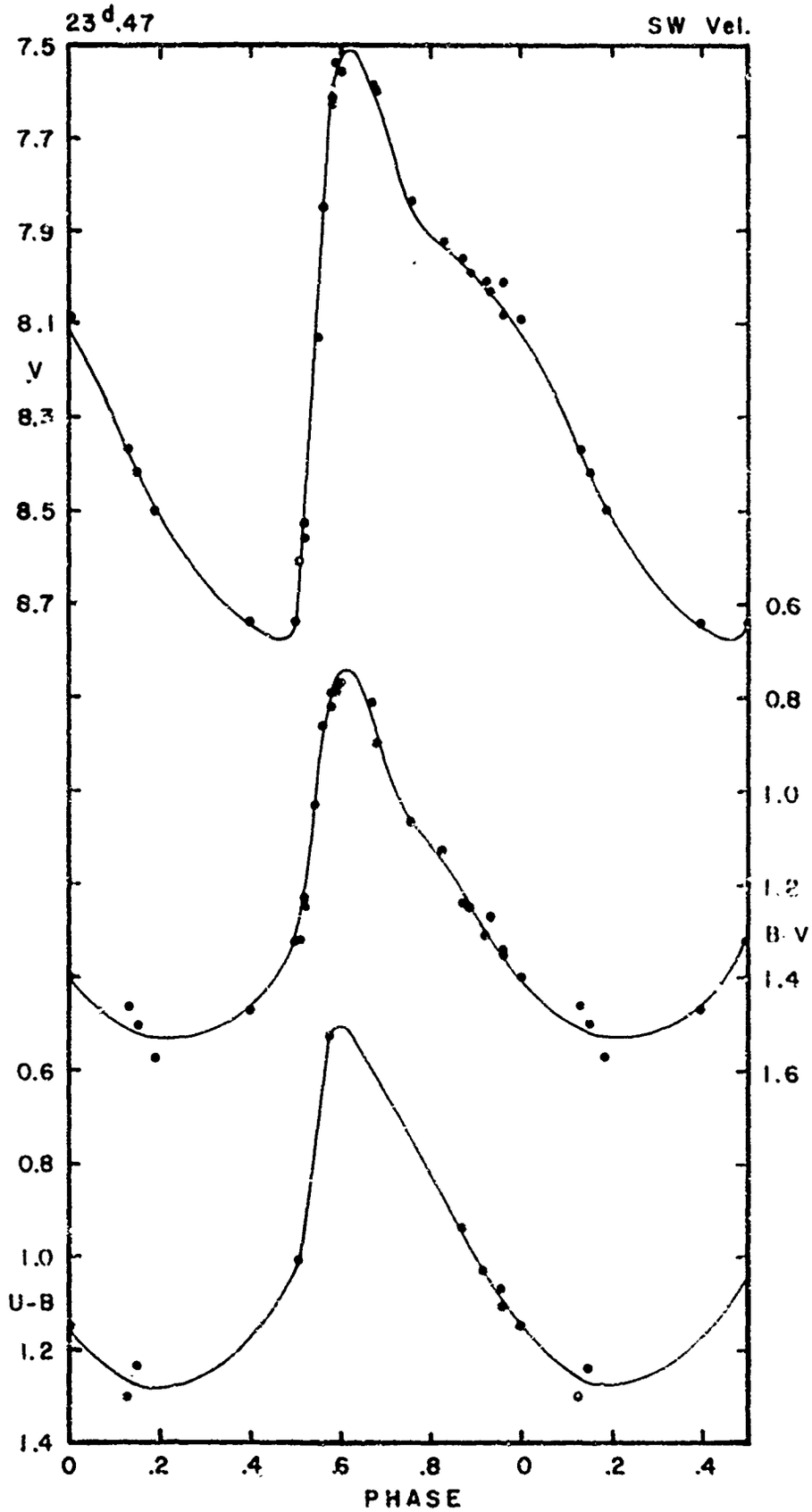

17d.14
SZ Aql.
8.1
8.3
8.5
8.7
V
8.9
9.1
1.0
1.2
1.4
B-V
1.6
1.8
0.9
1.1
1.3
1.5
U-B
1.7
0
.2
.4
.6
.8
0
.2
.4
PHASE

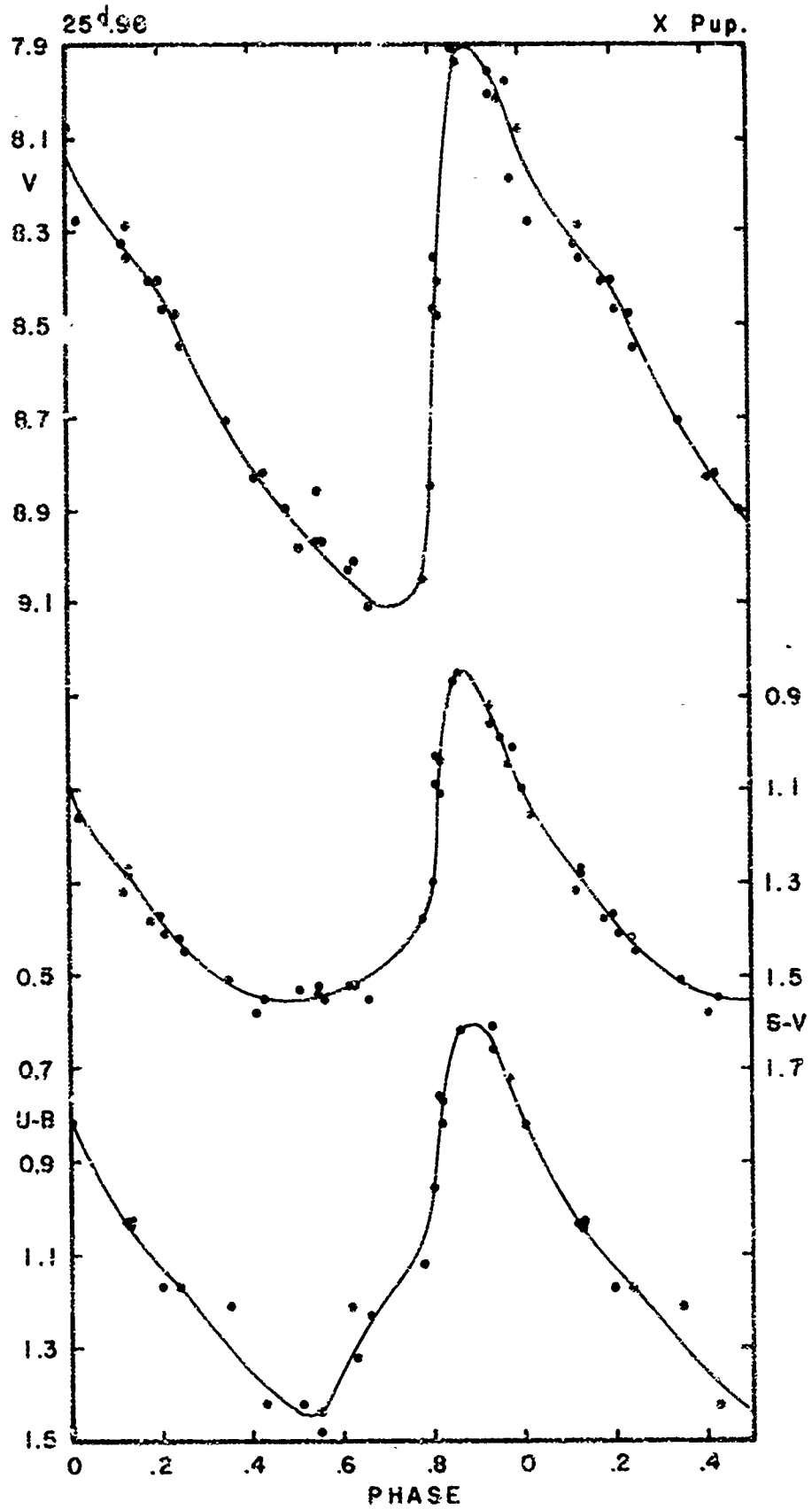

19d.70
RU Sct.
8.8
9.0
9.2
9.4
V
9.6
9.8
10.0
1.4
1.6
1.8
B-V
2.0
1.0
1.2
U-B
1.4
1.6
0
.2
.4
.6
.8
0
.2
.4
PHASE

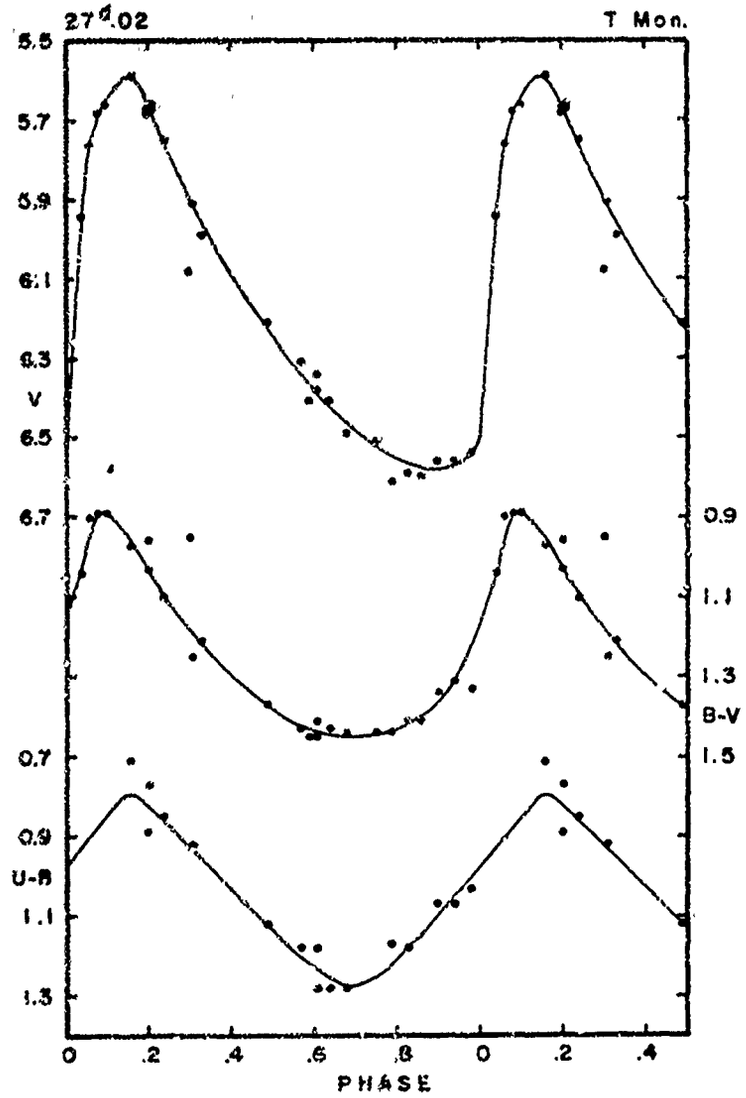

20d.13
VX Cyg.
9.4
9.6
9.8
10.0
V
10.2
10.4
10.6
1.4
1.6
1.8
B-V
2.0
2.2
1.0
1.2
1.4
1.6
U-B
1.8
0
.2
.4
.6
.8
0
.2
.4
PHASE

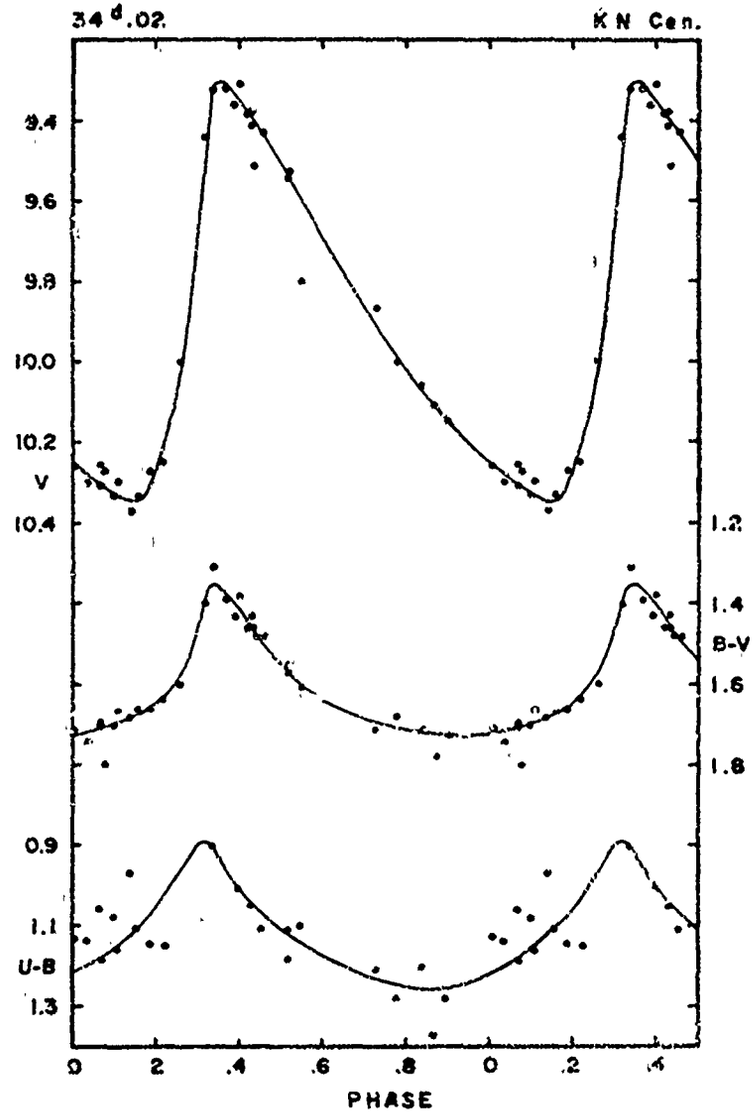

20d.40
RZ Vel.
6.4
6.6
6.8
7.0
7.2
V
7.4
7.6
0.4
0.6
0.8
1.0
B-V
1.2
1.4
1.6
0.9
1.1
U-B
1.3
0
.2
.4
.6
.8
0
.2
.4
PHASE

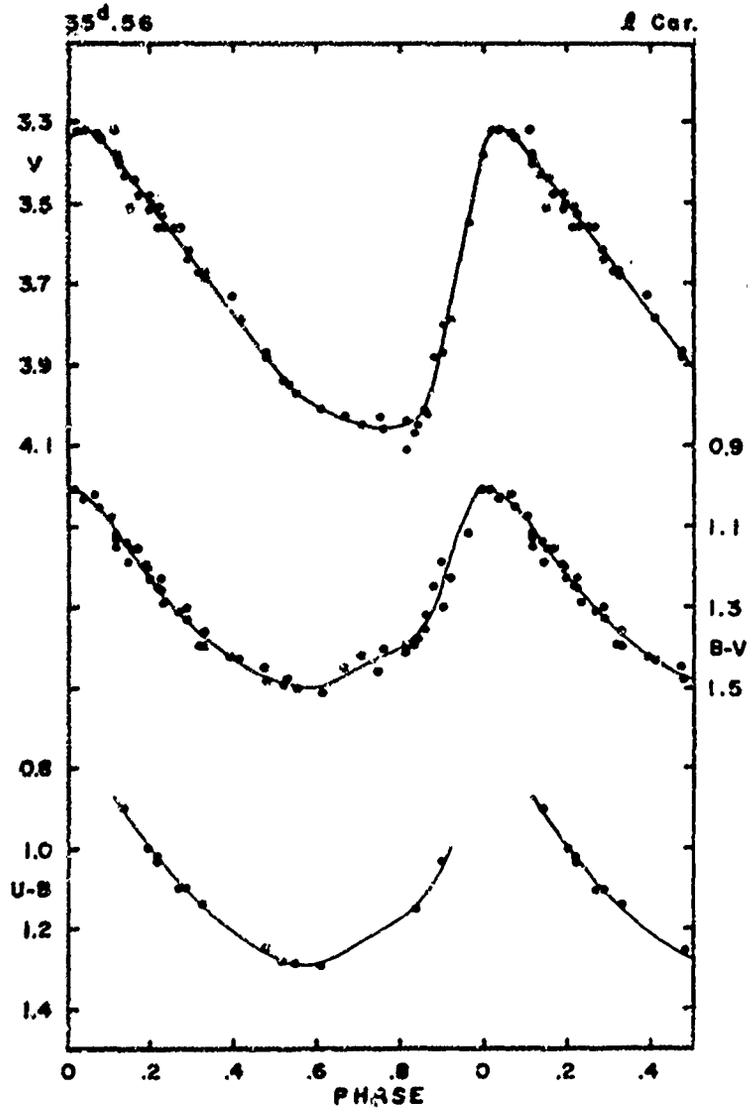

21d.85
WZ Sgr.
7.4
V
7.6
7.8
8.0
8.2
8.4
8.2
1.0
1.2
1.4
1.6
B-V
1.8
0.8
U-B
1.0
1.2
1.4
1.6
0
.2
.4
.6
.8
0
.2
.4
PHASE

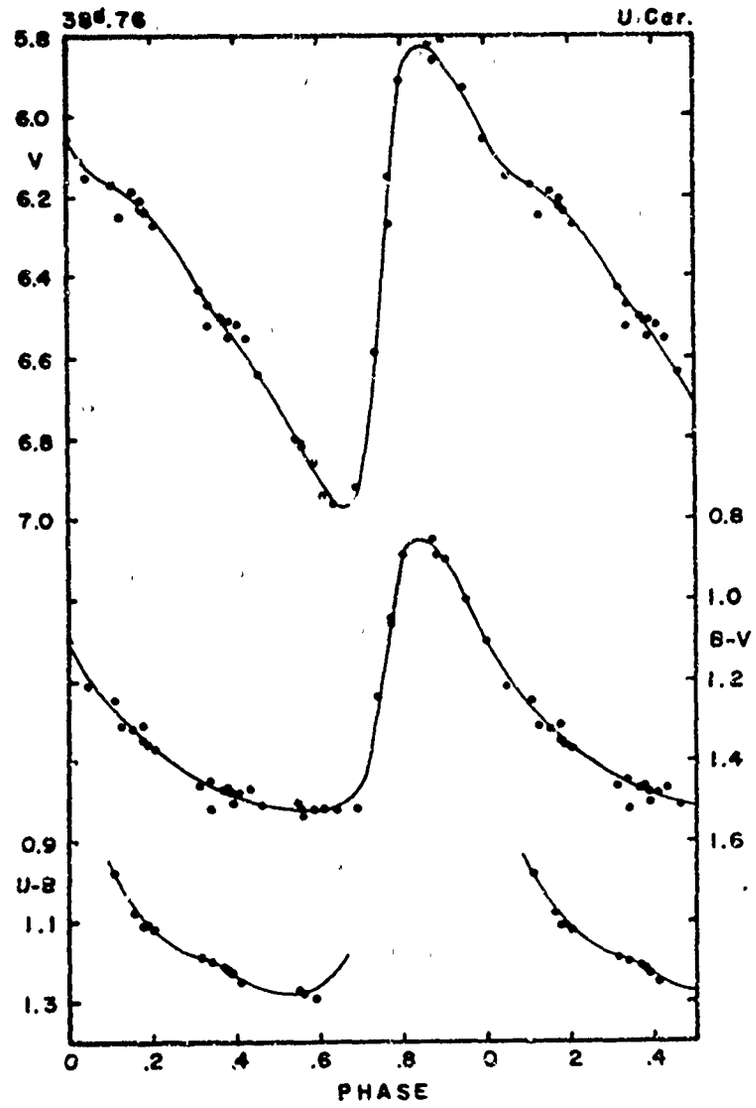

23d.47
SW Vel.
7.5
7.7
7.9
8.1
V
8.3
8.5
8.7
0.6
0.8
1.0
1.2
B-V
1.4
1.6
0.6
0.8
1.0
U-B
1.2
1.4
0
.2
.4
.6
.8
0
.2
.4
PHASE

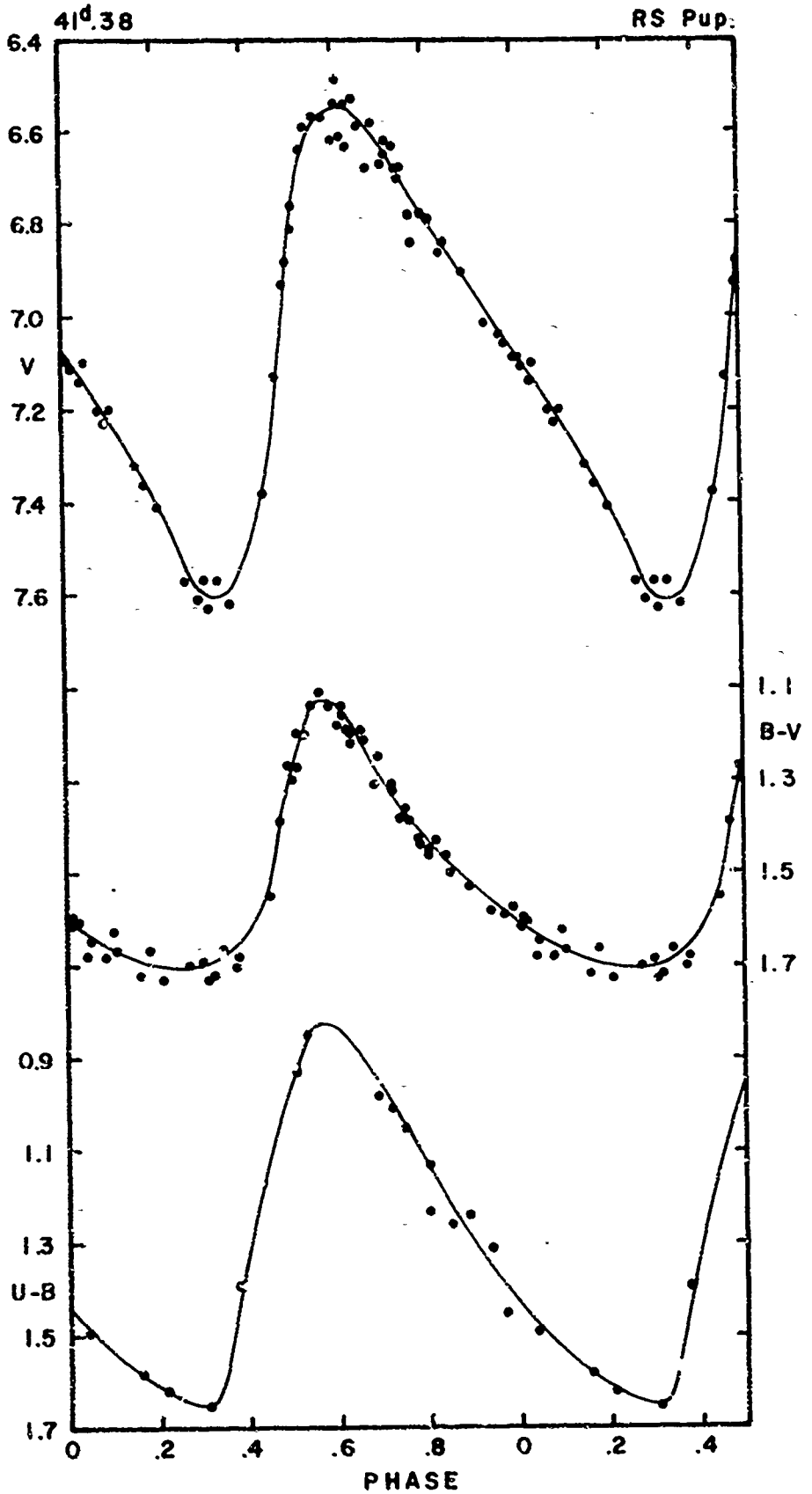

25d.90
X Pup.
7.9
8.1
V
8.3
8.5
8.7
8.9
9.1
0.9
1.1
1.3
1.5
B-V
1.7
0.5
0.7
U-B
0.9
1.1
1.3
1.5
0
.2
.4
.6
.8
0
.2
.4
PHASE

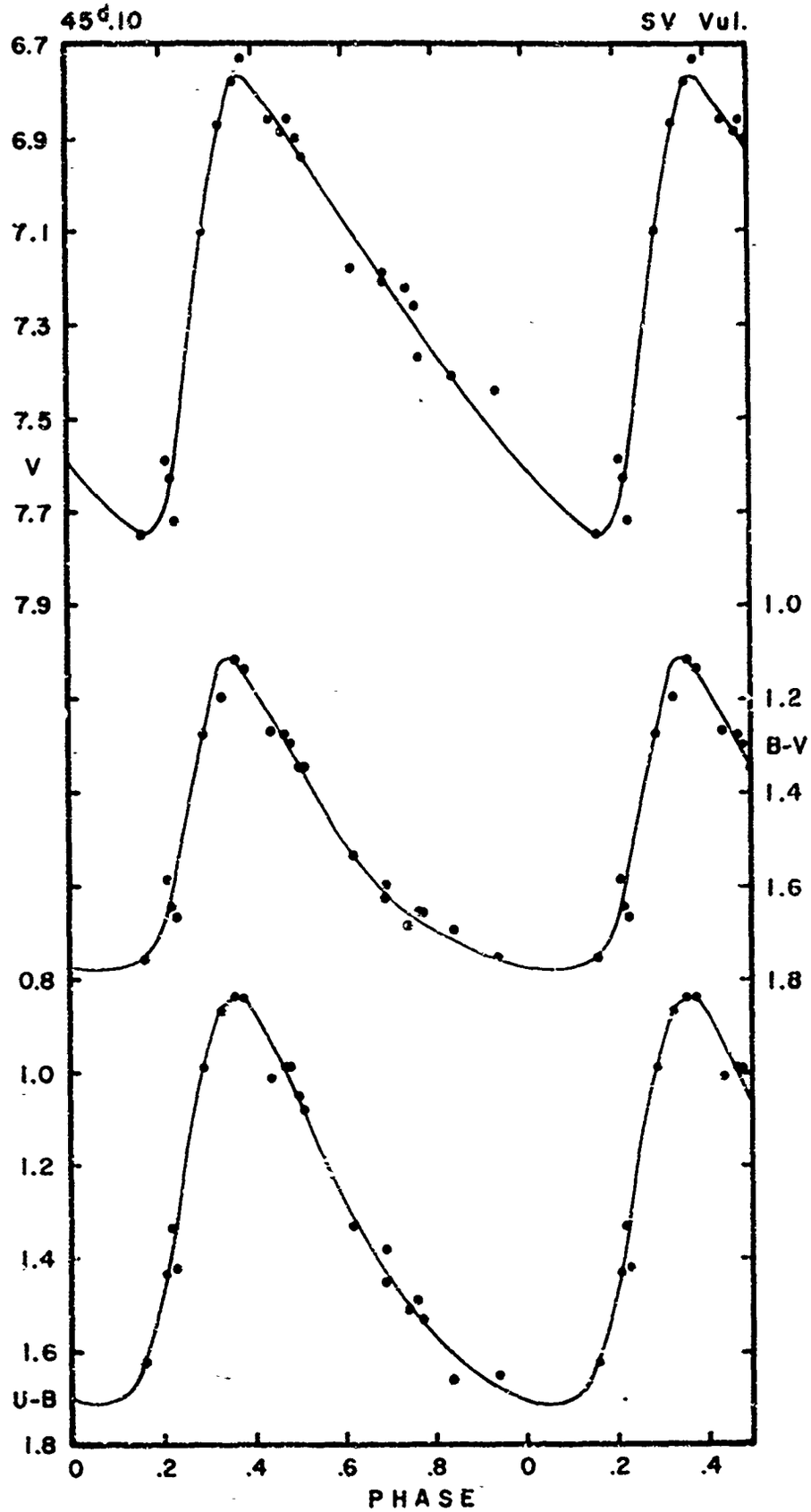

27d.02
T Mon.
5.5
5.7
5.9
6.1
6.3
V
6.5
6.7
0.9
1.1
1.3
B-V
1.5
0.7
0.9
U-B
1.1
1.3
0
.2
.4
.6
.8
0
.2
.4
PHASE


34d.02
KN Cen.
9.4
9.6
9.8
10.0
10.2
V
10.4
1.2
1.4
B-V
1.6
1.8
0.9
1.1
U-B
1.3
0
2
.4
.6
.8
0
.2
.4
PHASE


35d.56
ℓ Car.
3.3
V
3.5
3.7
3.9
4.1
0.9
1.1
1.3
B-V
1.5
0.8
1.0
U-B
1.2
1.4
0
.2
.4
.6
.8
0
.2
.4
PHASE


38d.76
U Car.
5.8
6.0
V
6.2
6.4
6.6
6.8
7.0
0.8
1.0
B-V
1.2
1.4
1.6
0.9
U-B
1.1
1.3
0
.2
.4
.6
.8
0
2
.4
PHASE


41d.38
RS Pup.
6.4
6.6
6.8
7.0
V
7.2
7.4
7.6
1.1
B-V
1.3
1.5
1.7
0.9
1.1
1.3
U-B
1.5
1.7
0
.2
.4
.6
.8
0
.2
.4
PHASE


45d.10
SV Vul.
6.7
6.9
7.1
7.3
7.5
V
7.7
7.9
1.0
1.2
B-V
1.4
1.6
1.8
0.8
1.0
1.2
1.4
1.6
U-B
1.8
0
.2
.4
.6
.8
0
.2
.4
PHASE

It is important for studies of galactic rotation and structure that the transformations between the Southern and the Northern data be good. Comparisons among the three sets of Southern photometry (Irwin 1961, Walraven, Muller and Oosterhoff 1958 and Eggen, Gascoigne and Burr 1957) indicate no systematic differences between observers, after our transformations have been applied. However, there is a systematic difference of 0.05 mag. in the V magnitude between Irwin (1961) and Walraven et. al. (1958) for the subset of best observed stars south of declination −40°. Occasional residuals between southern observers for individual stars may be as large as 0.1 mag., but the mean differences among the three lists of southern data are not significant.

The distribution, by period, of the Cepheids we have given in our catalogue is shown in Table 5. The last column contains the distribution of Cepheids for which we have provided plotted figures.

TABLE 5

Distribution of Cepheids by Period

Log P(days)	*Kukarkin Gen. Catalog (1958)*	*Tables 1 & 2*	*Plotted Light Curves*
< .1	7	9	0
.1 to .2	9	4	1
.2 to .3	8	4	1
.3 to .4	22	9	1
.4 to .5	30	15	2
.5 to .6	56	26	5
.6 to .7	73	49	12
.7 to .8	85	53	15
.8 to .9	64	18	16
.9 to 1.0	33	22	7
1.0 to 1.1	11	27	9
1.1 to 1.2	59	30	6
1.2 to 1.3	36	21	6
1.3 to 1.4	26	12	4
1.4 to 1.5	21	11	2
1.5 to 1.6	16	8	3
1.6 to 1.7	5	3	2
> 1.7	5	0	0

About 230 of the stars of Table 1 are well observed. Of these we have selected 93, whose light and color curves are shown in the figures following the catalogue. An effort was made to include stars with data from more than one source; stars having superior U−B curves; and stars representing the variety of curve shapes at all periods. Stars which show cycle to cycle variation have been largely omitted from the figures. The figures are arranged in order of period.

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Many of the new photoelectric observations were made by Dr. Sotirios N. Svolopoulos.

REFERENCE LIST

Abt, H. A. and Hardie, R. H. 1960. *Ap. J.* 131, 755.

Bahner, K., Hiltner, W. A. and Kraft, R. P. 1962. *Ap. J. Suppl.* 6, 319

Eggen, O. J. 1951. *Ap. J.* 113, 367.

Eggen, O. J., Gascoigne, S. C. B., and Burr, E. J., 1957. *M. N.* 117, 406.

Irwin, J. B. 1961. *Ap. J. Suppl.* 6, 253.

Johnson, H. L. 1960. *Ap. J.* 131, 620.

Kukarkin, B. V., Parenago, P. O., Efremov, Yu. I. and Kholopov, P. N. 1958. "*Second General Catalogue of Variable Stars*" (Moscow: Academy of Sciences, U. S. S. R.).

Oosterhoff, P. Th. 1960. *B. A. N.*, 15, 199.

Sandage, A. 1960. *Ap. J.* 131, 610.

Walraven, Th., Muller, A. B. and Oosterhoff, P. Th., 1958. *B. A. N.* 14, 81

Weaver, H., Steinmetz, D., and Mitchell, R. 1961. *Lowell Observatory Bull.* 5, 30.